

FIG. 1b

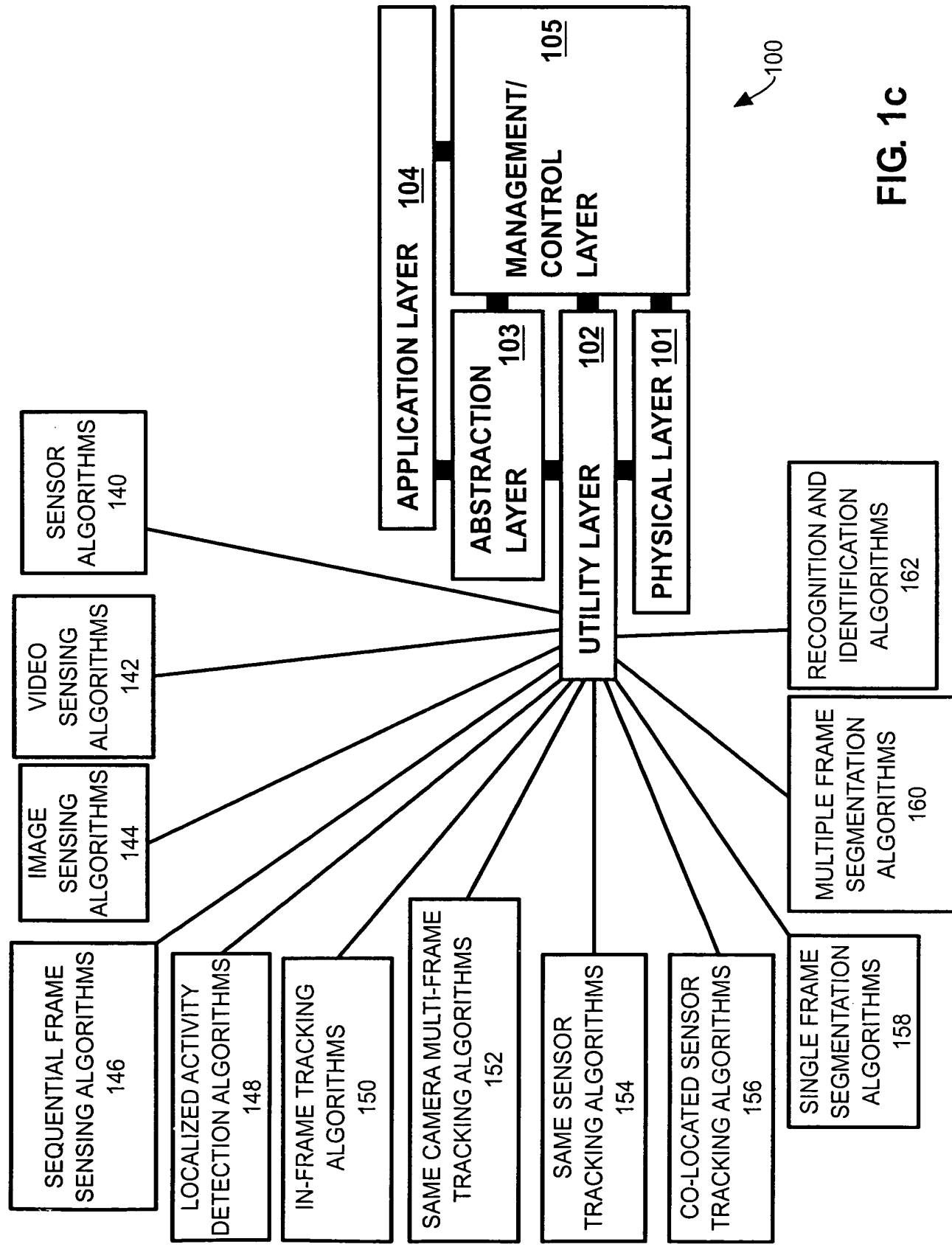


FIG. 1c

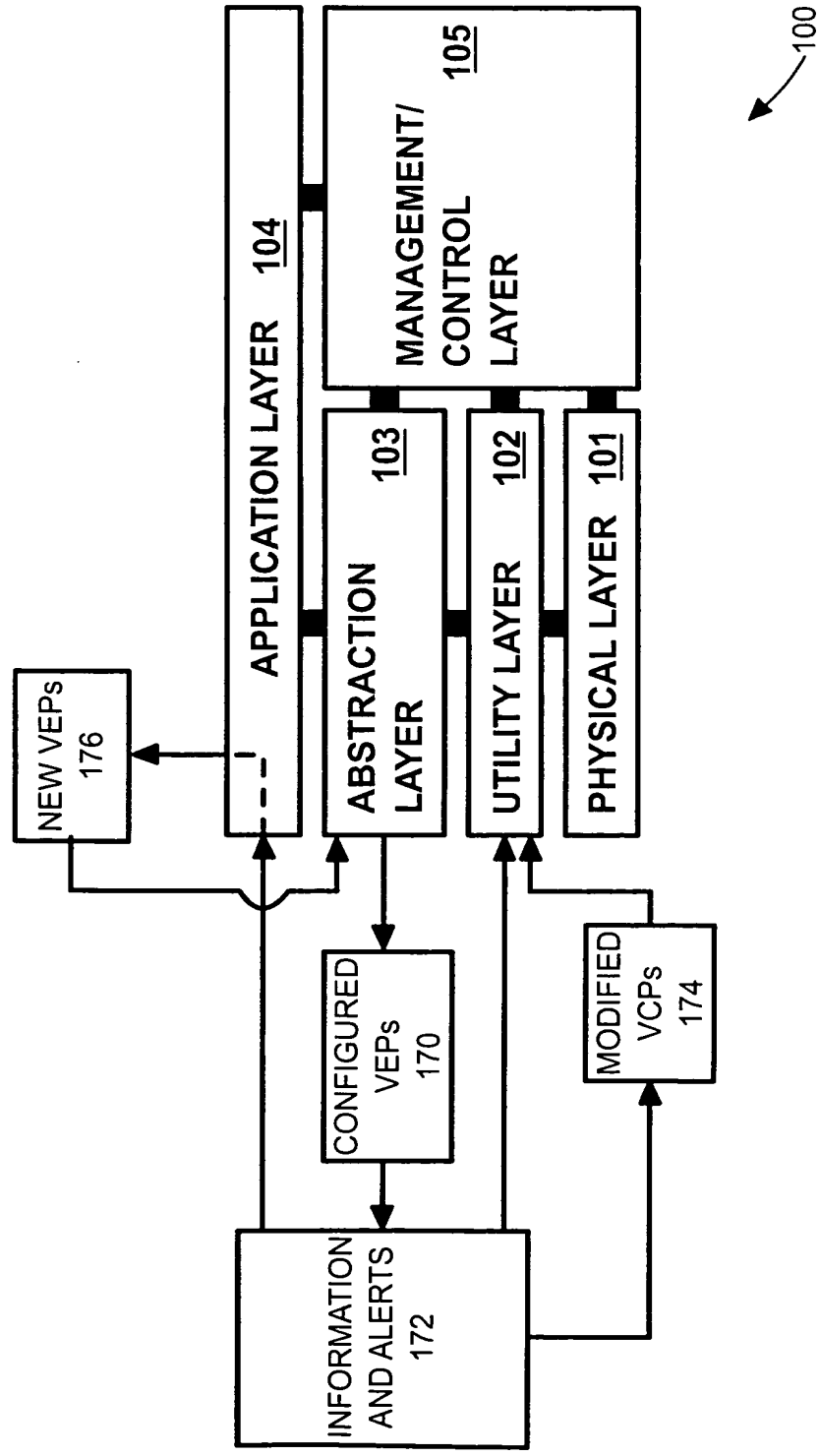
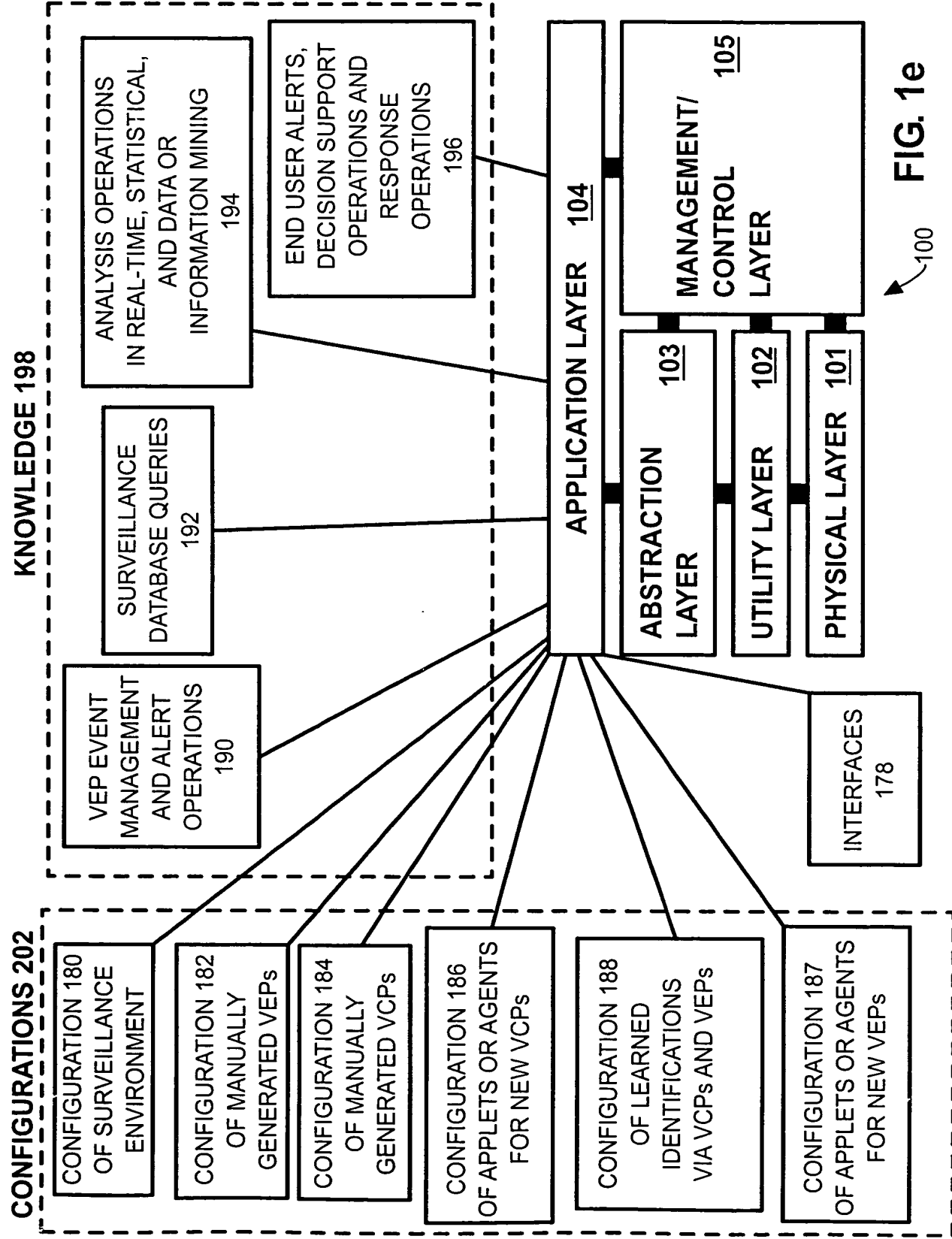


FIG. 1d



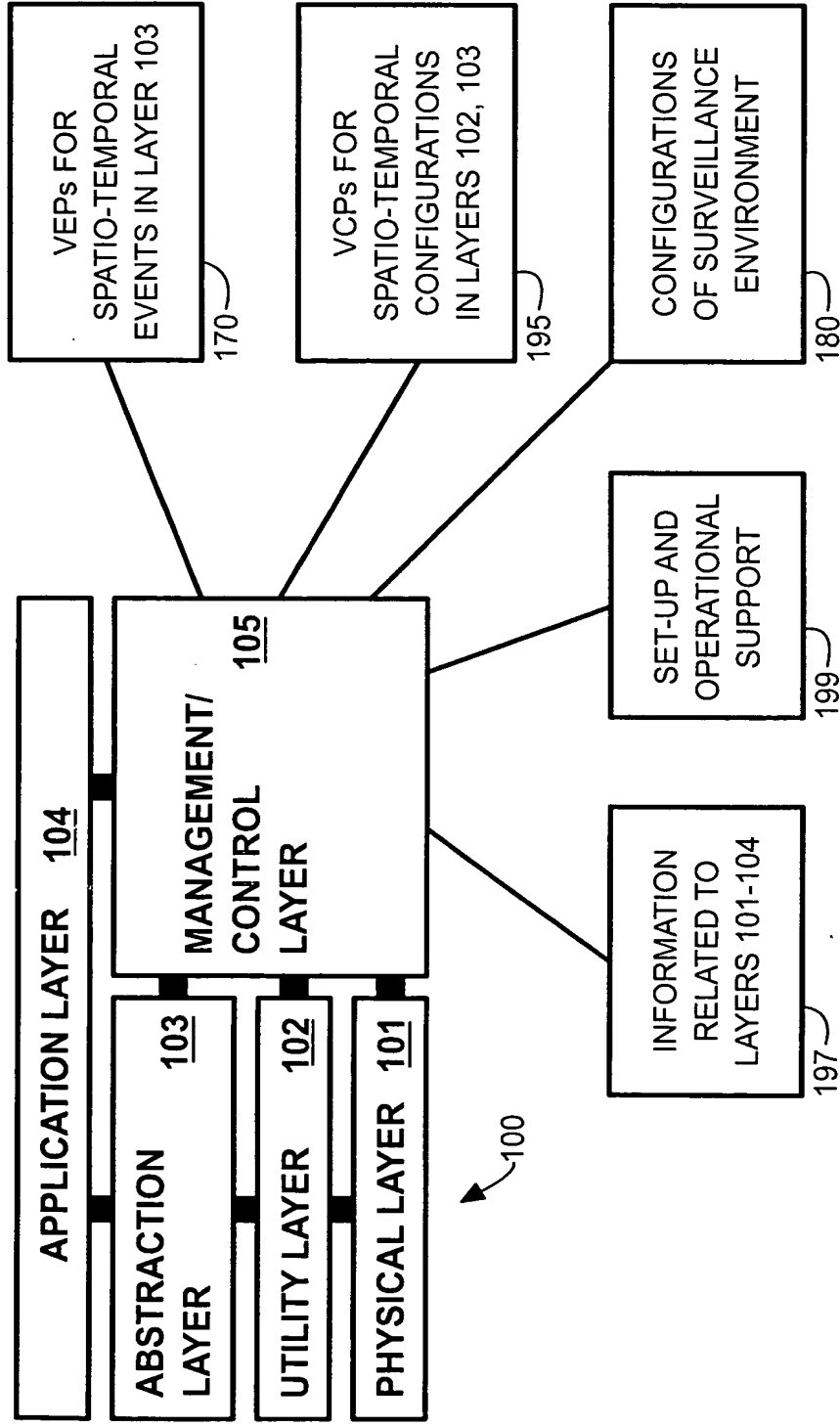


FIG. 1f

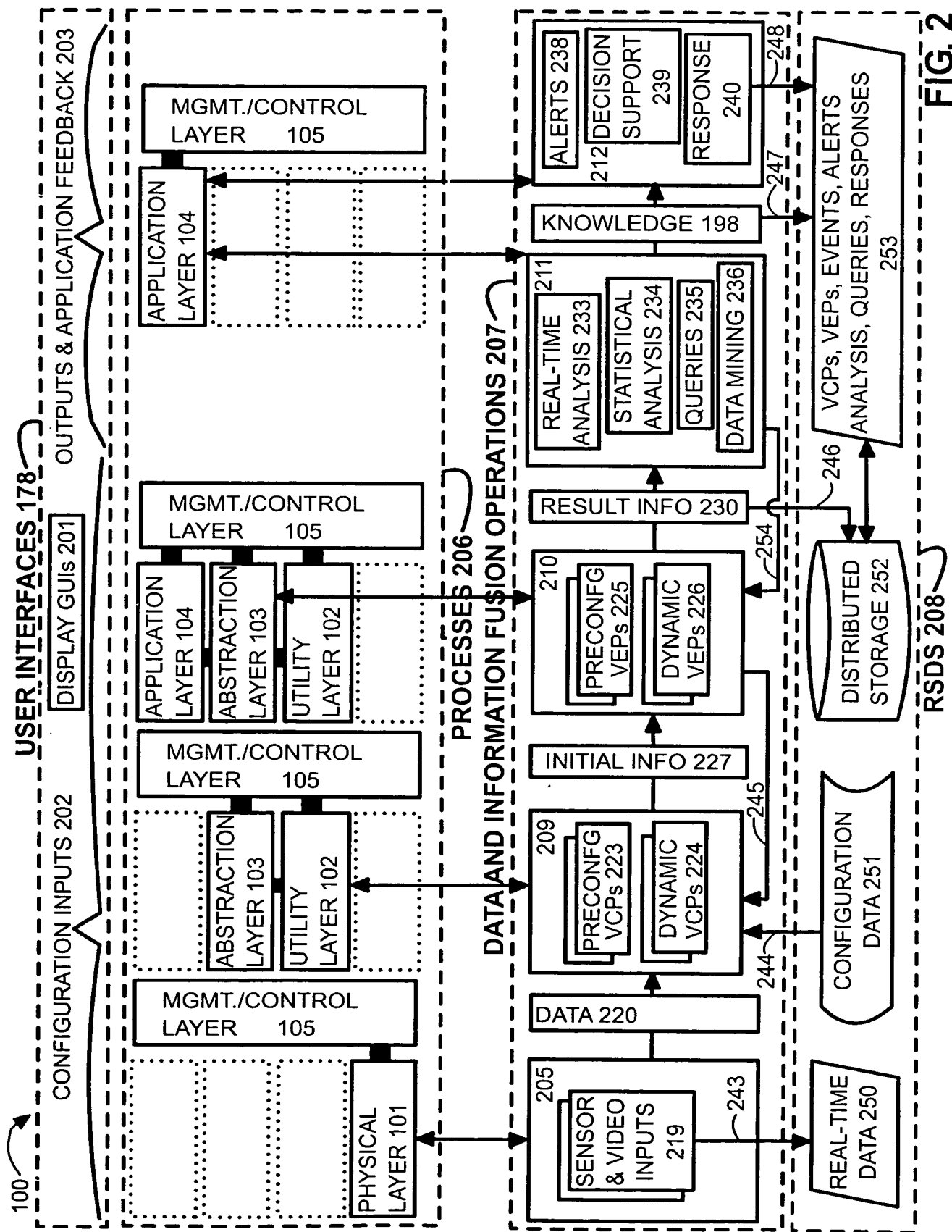


FIG. 2

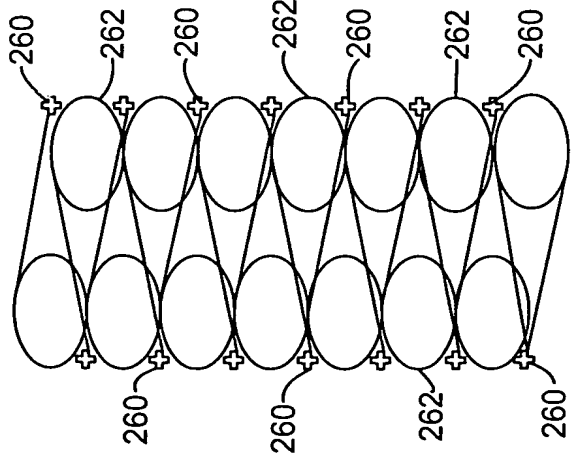


FIG. 3a

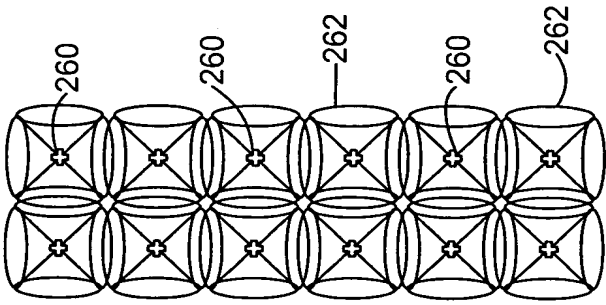


FIG. 3b

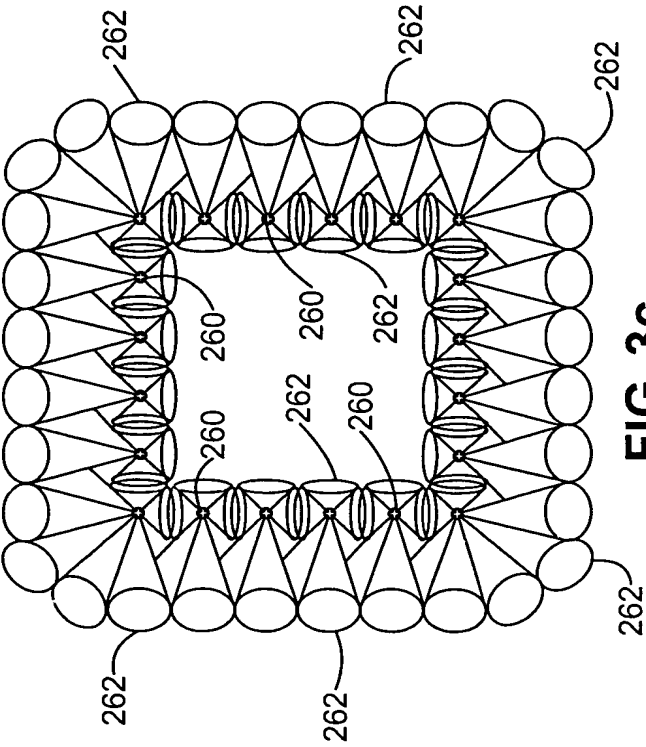


FIG. 3c

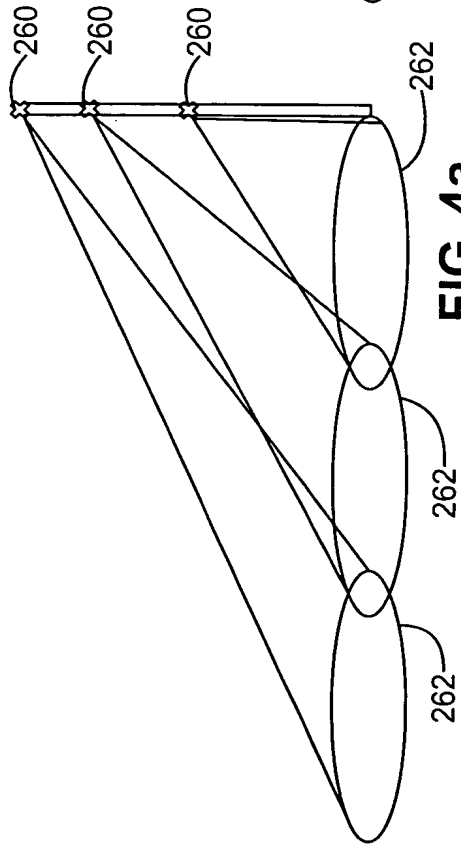


FIG. 4a

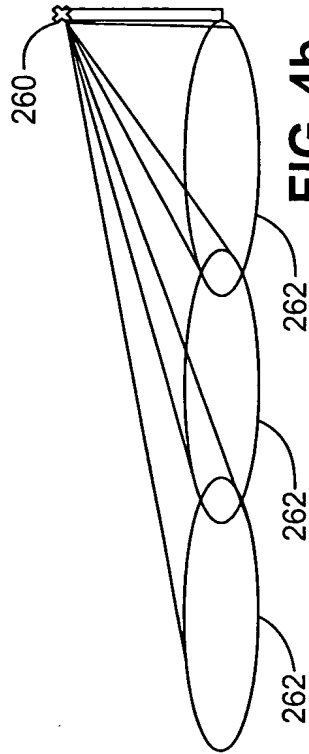
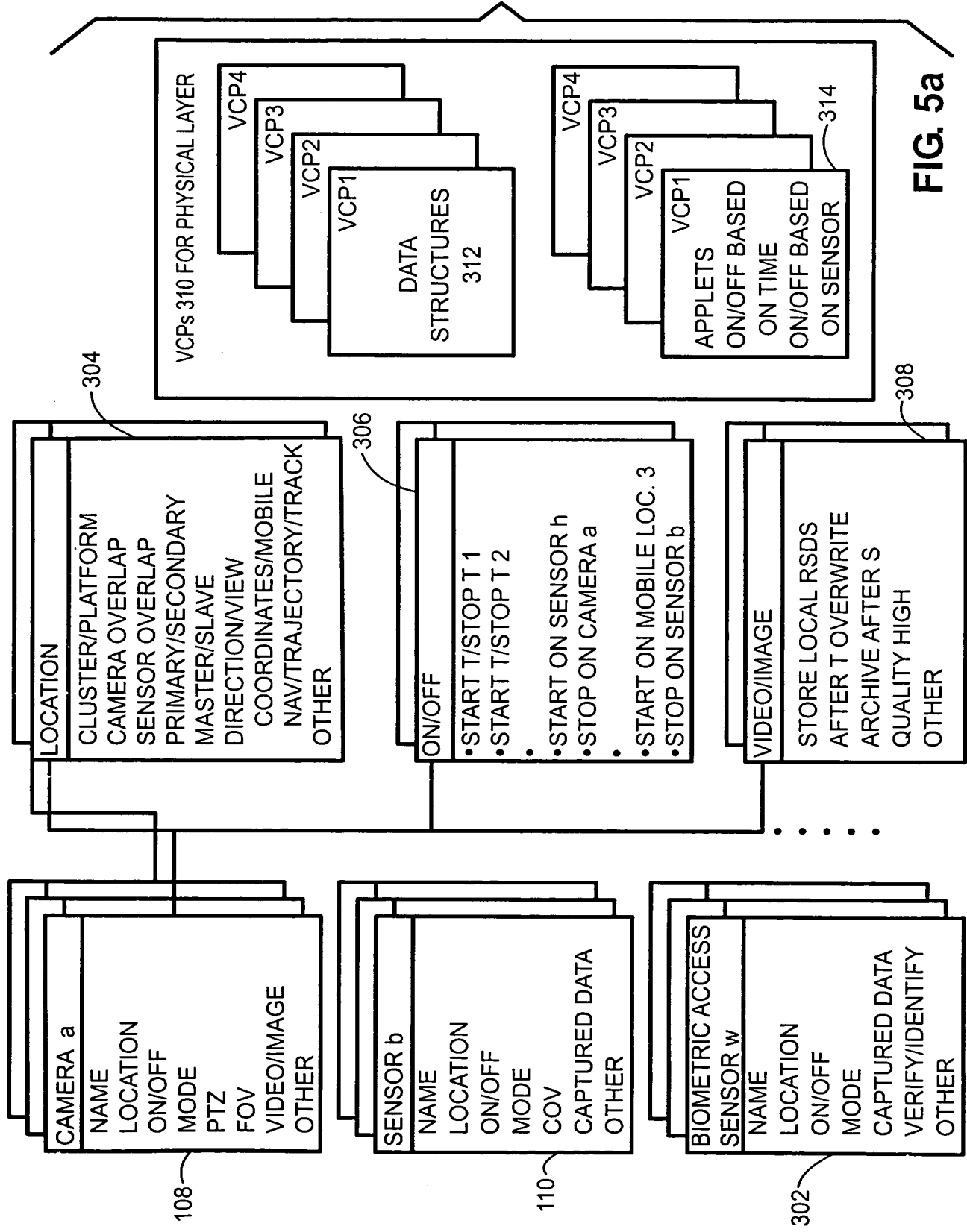
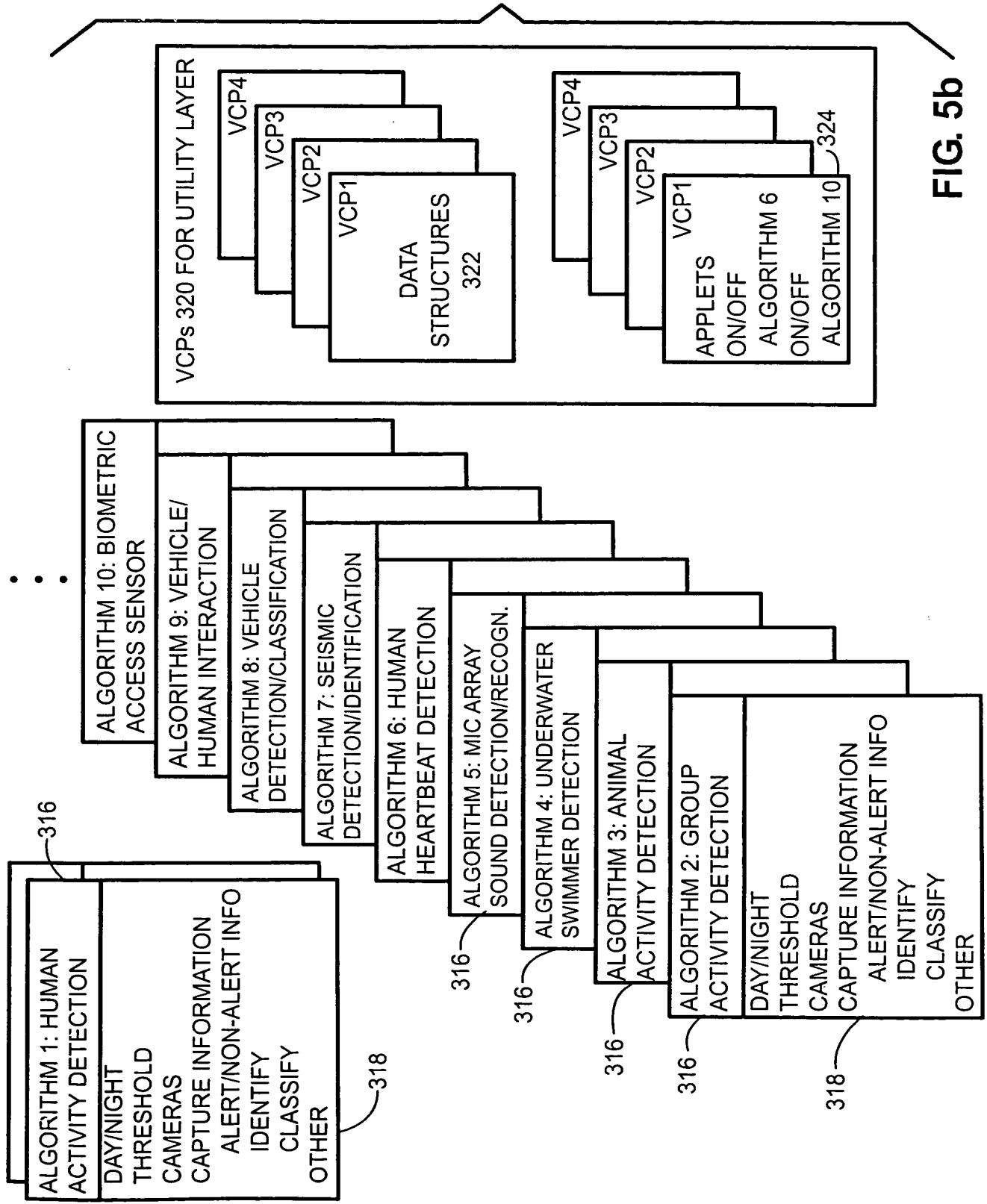


FIG. 4b





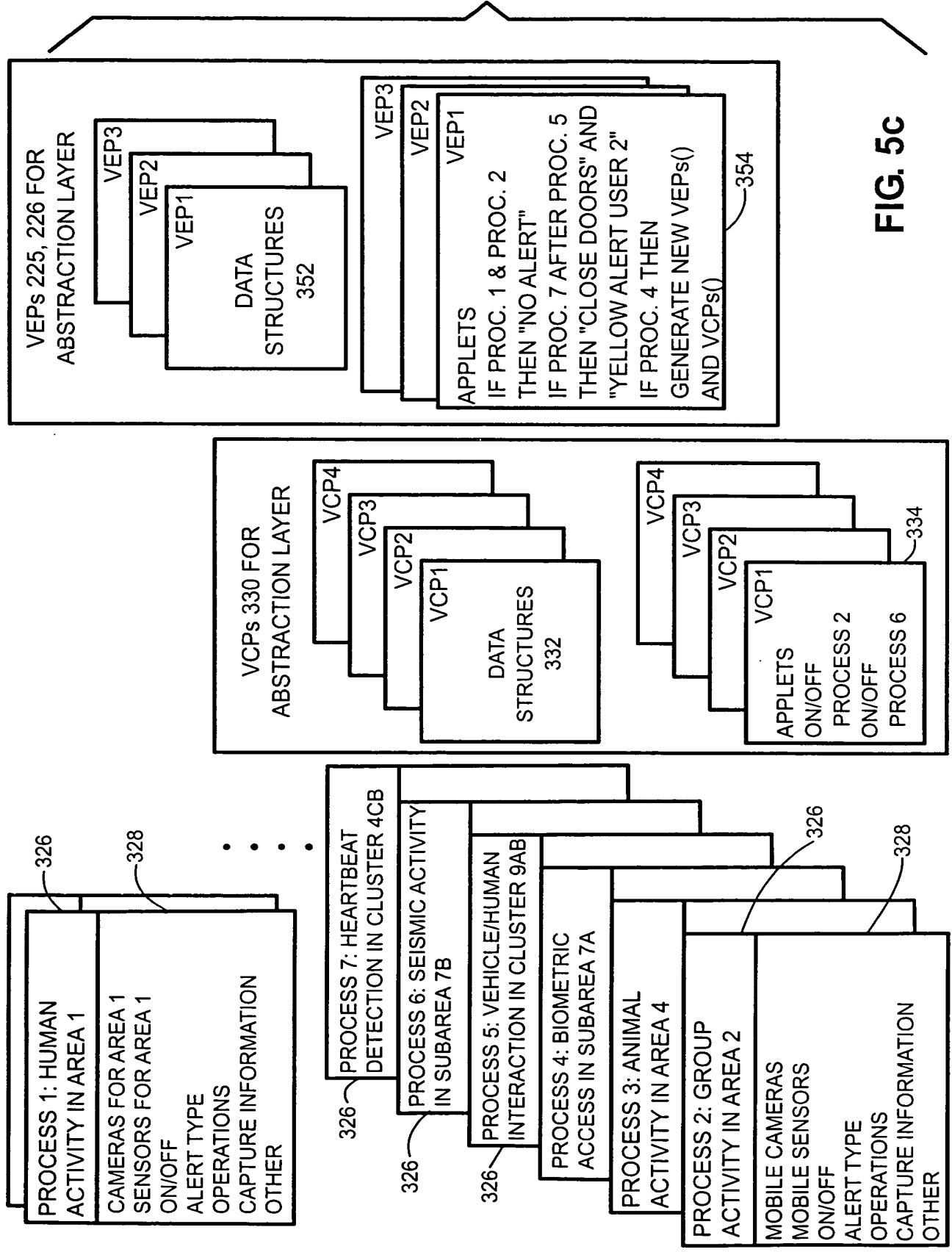


FIG. 5c

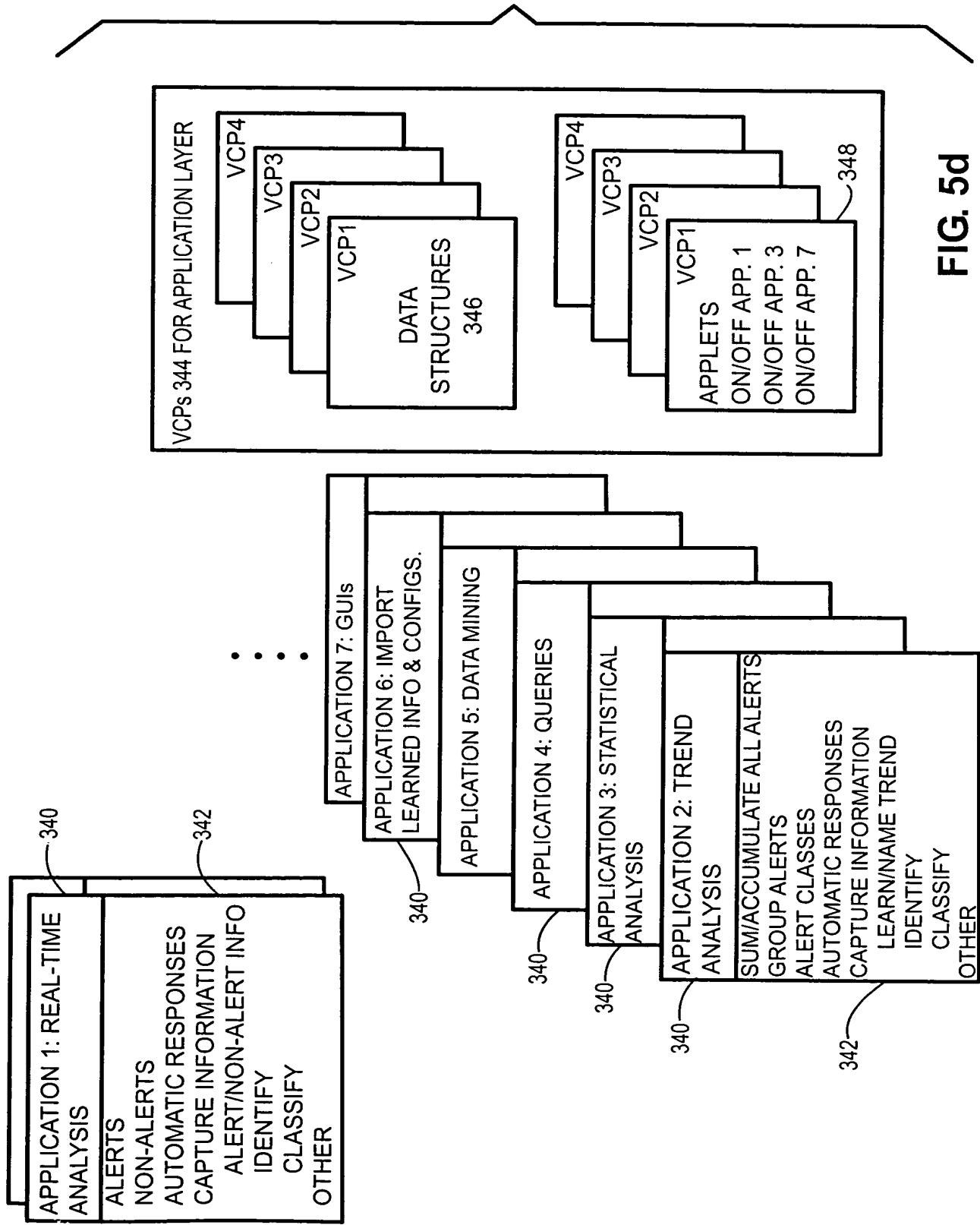


FIG. 5d

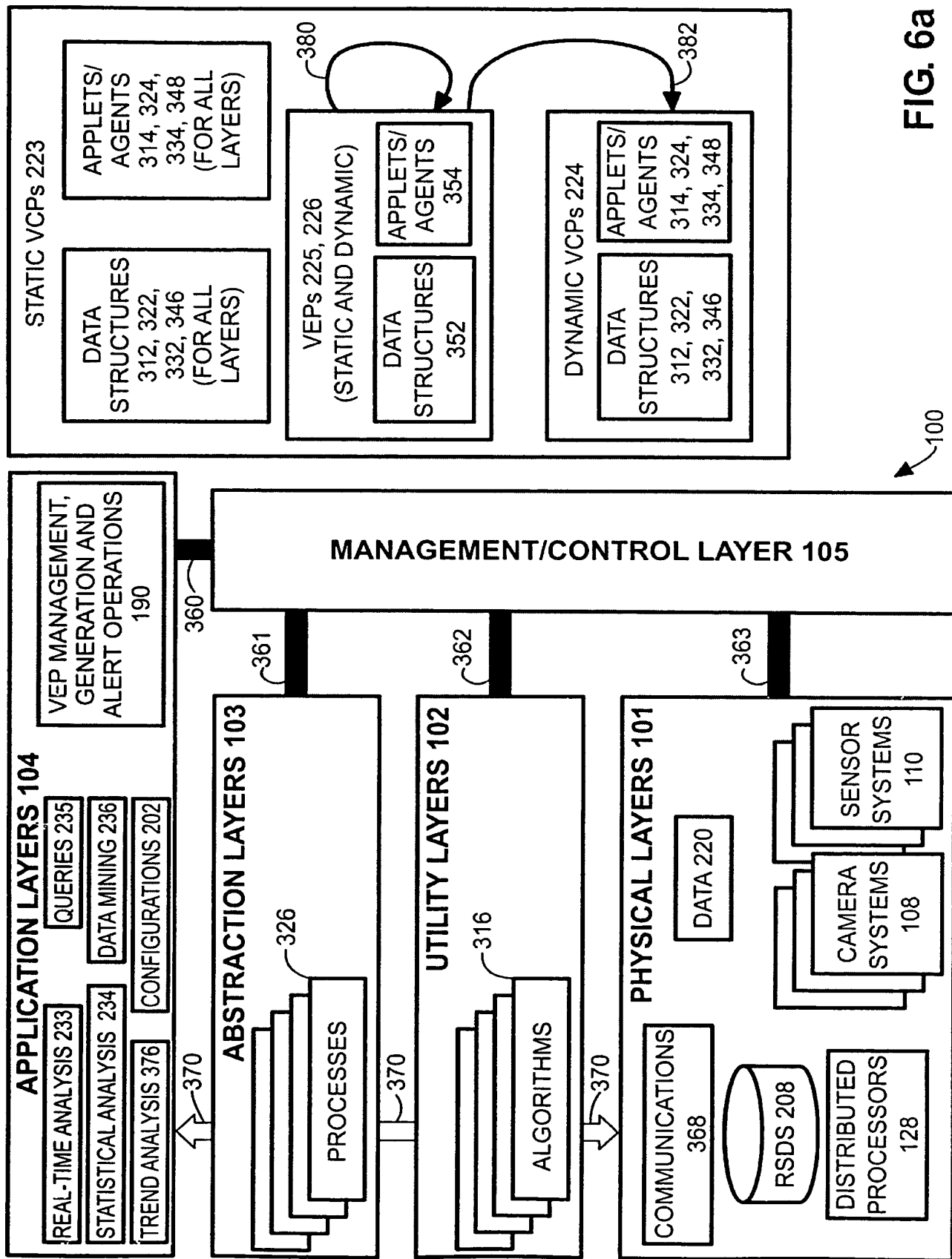


FIG. 6a

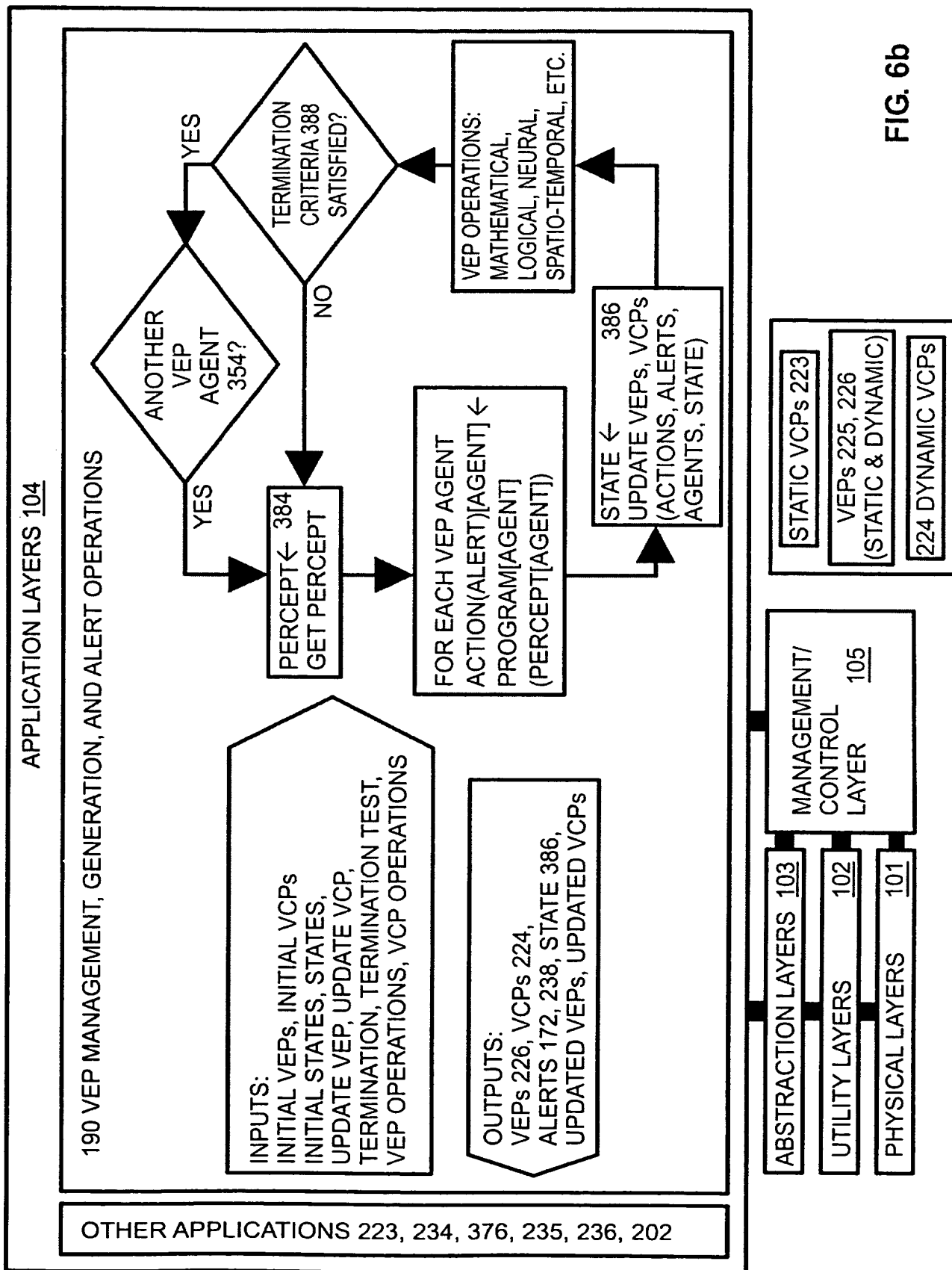
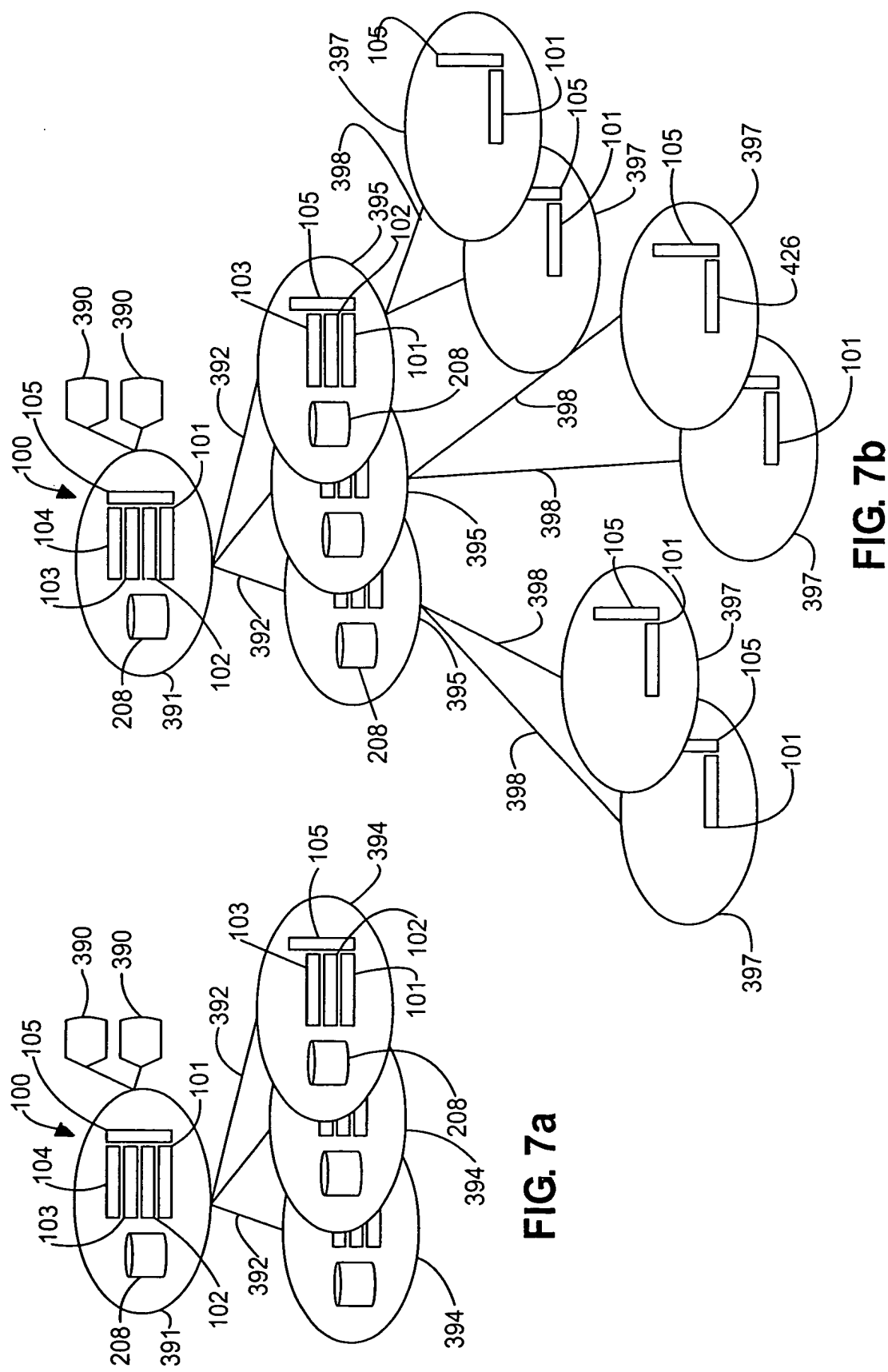


FIG. 6b



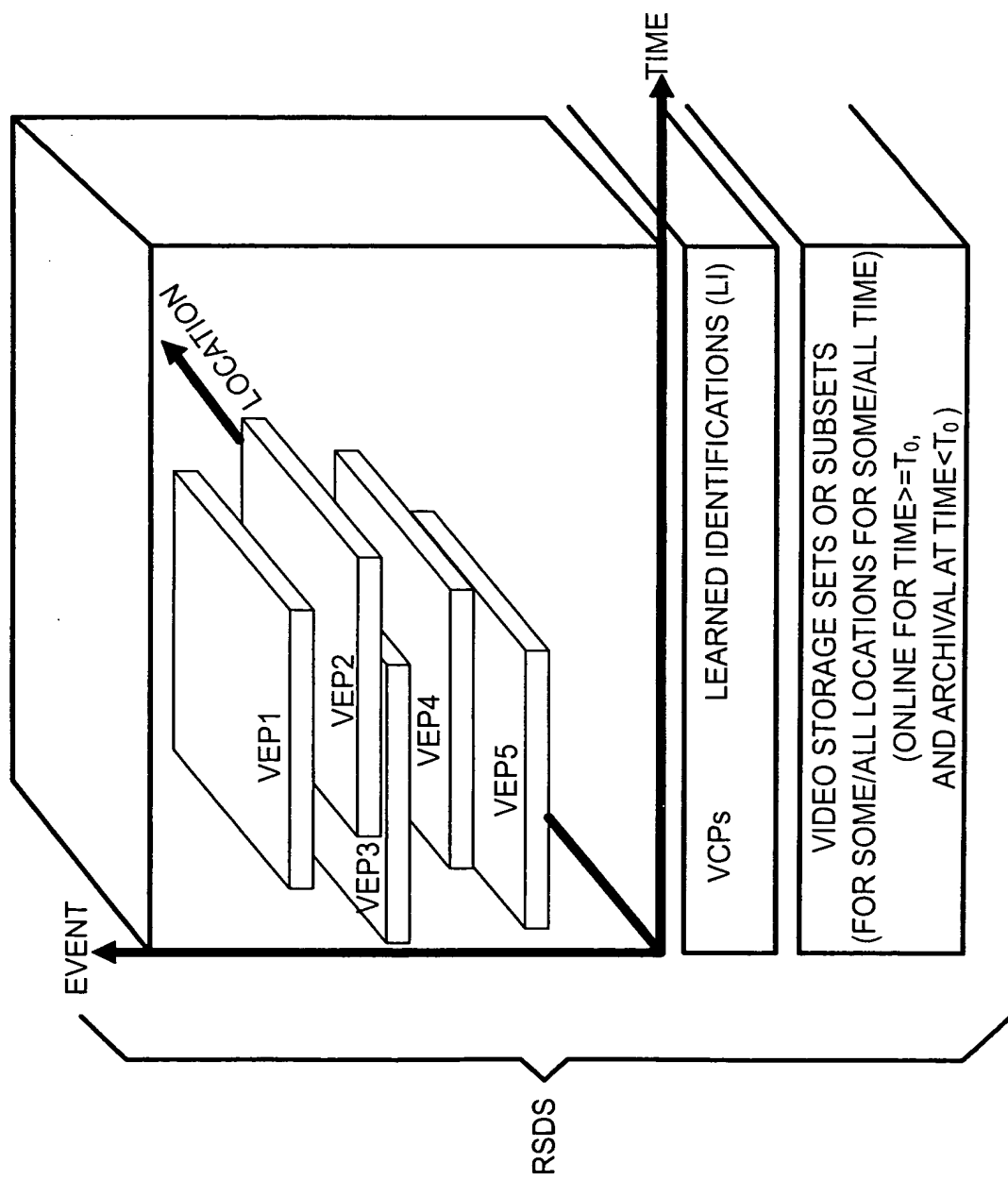


FIG. 8

APPLICATION LAYER: 104

- ENVIRONMENT CONFIGURATION
- IDENTIFICATION LEARNING (STORE/RETRIEVE)
- CONFIGURATION OF VCPs (WITH GUI)
- ALERTING AND RESPONDING
- ALERTING AND RESPONDING VIA APPS (WITH GUI)
- DECISION SUPPORT APPLICATIONS
- QUERIES

ABSTRACTION LAYER:

103

- HUMAN ACTIVITY ALERTS VIA VEPs
- VEHICLE ACTIVITY ALERTS VIA VEPs
- VESSEL ACTIVITY ALERTS VIA VEPs
- OTHER ALERTS VIA VEPs

UTILITY LAYER:

102

- DETECTION SYSTEMS AS PER VCPs
- MULTI-SENSOR ALGORITHM MANAGEMENT
- ACTIVITY SENSOR ALGORITHMS
- IMAGE/VIDEO SENSOR PROCESSING ALGORITHMS
- RECOGNITION/IDENTIFICATION VIA VCP DRIVEN ALGORITHMS
- HUMAN ACTIVITY RECOGNITION
- VEHICLE ACTIVITY RECOGNITION
- HUMAN/VEHICLE INTERACTION RECOGNITION
- VESSEL ACTIVITY RECOGNITION
- HUMAN/VESSEL INTERACTION RECOGNITION
- OTHER ACTIVITY RECOGNITION

PHYSICAL LAYER:

101

- CAMERA SYSTEMS
- SENSOR SYSTEMS AND CONTROLS
- INTEGRATED SYSTEMS (CAMERA + SENSORS)
- IMAGING MODES & PTZ CONTROLS
- DIGITAL STORAGE & RETRIEVAL SYSTEM
- NETWORKING SYSTEM

MANAGEMENT/

CONTROL LAYER

105

- SET UP SURVEILLANCE ENVIRONMENT
- VIRTUAL EVENT PERIMETERS (VEPs) FOR SPATIO-TEMPORAL EVENTS
- VIRTUAL CONFIGURATION PERIMETERS (VCPs) FOR SPATIO-TEMPORAL CONFIGURATIONS

100a

FIG. 9

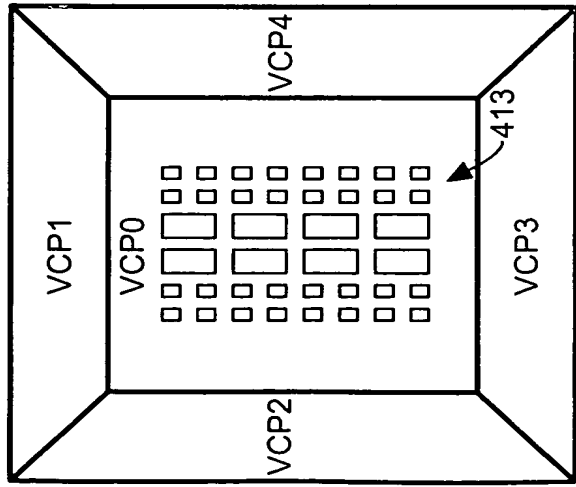


FIG. 10

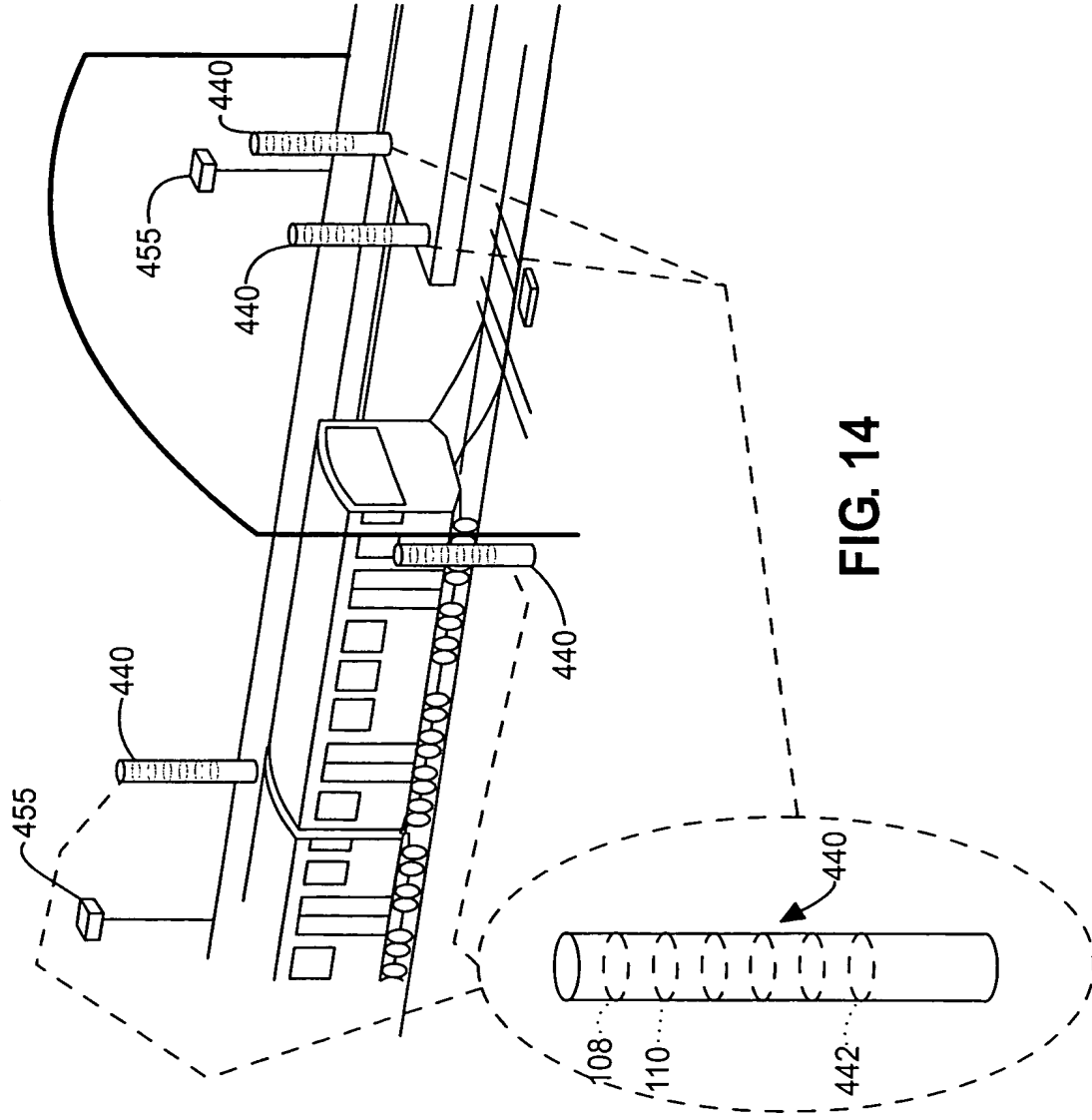


FIG. 14

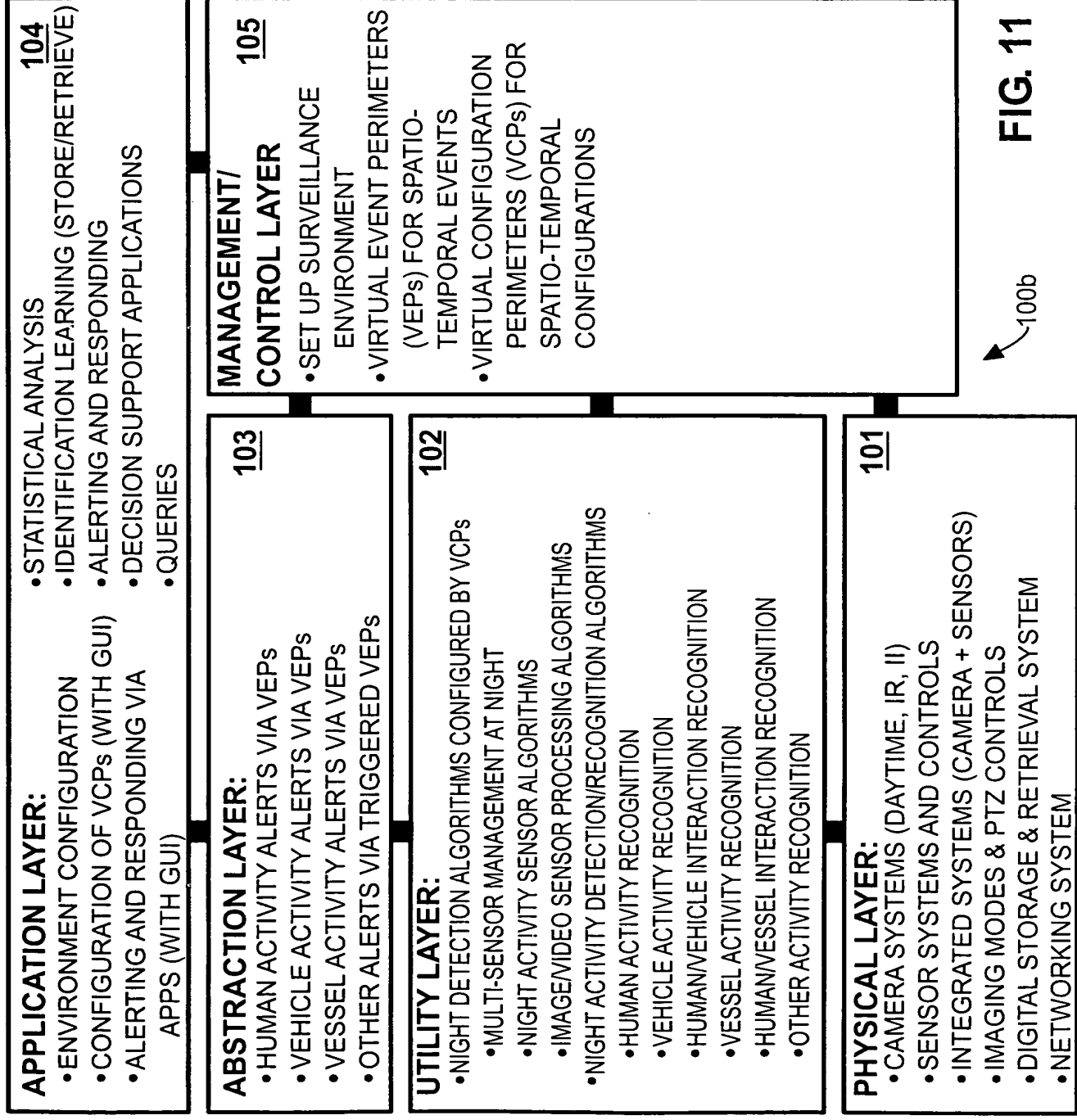


FIG. 11

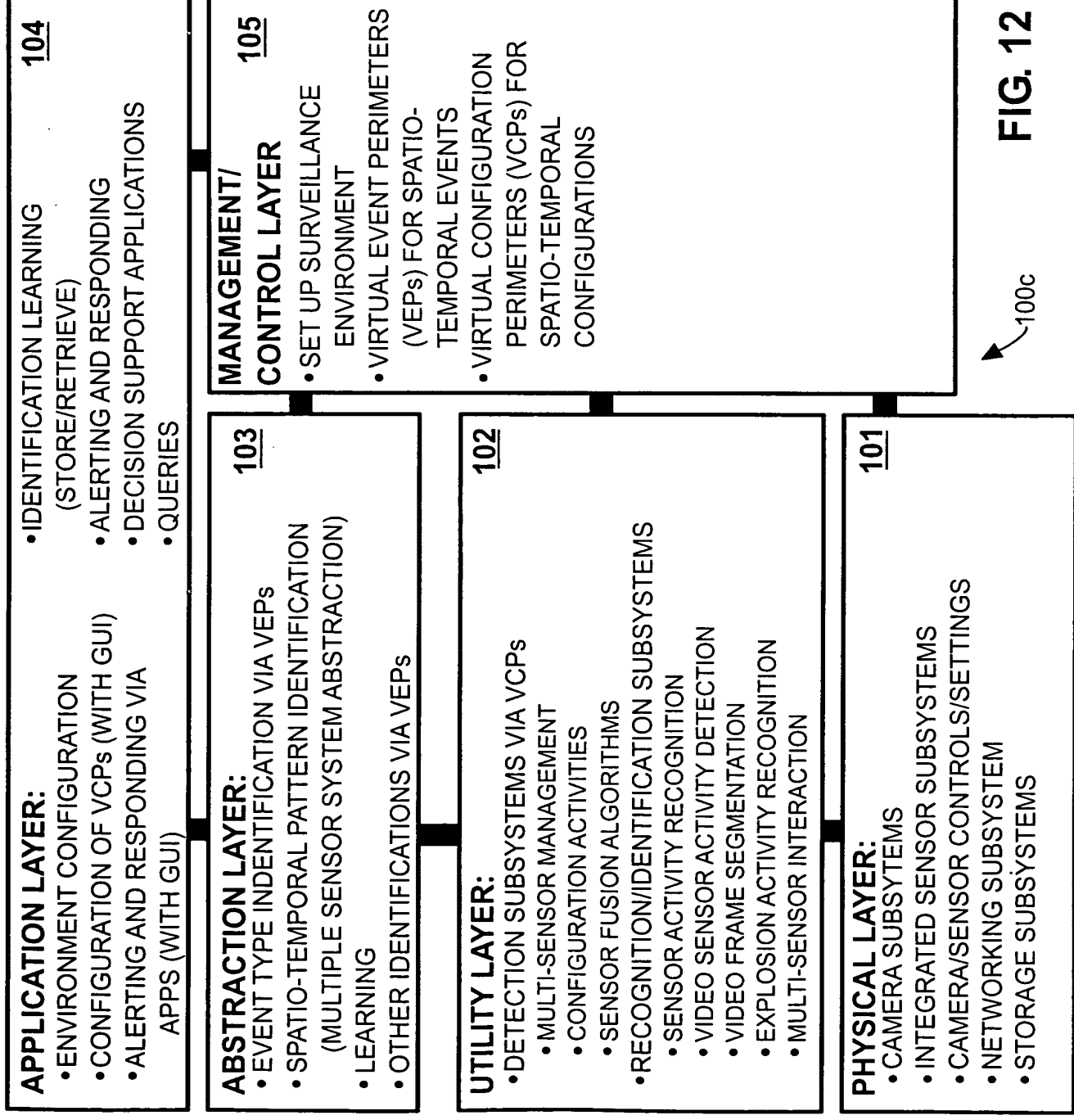
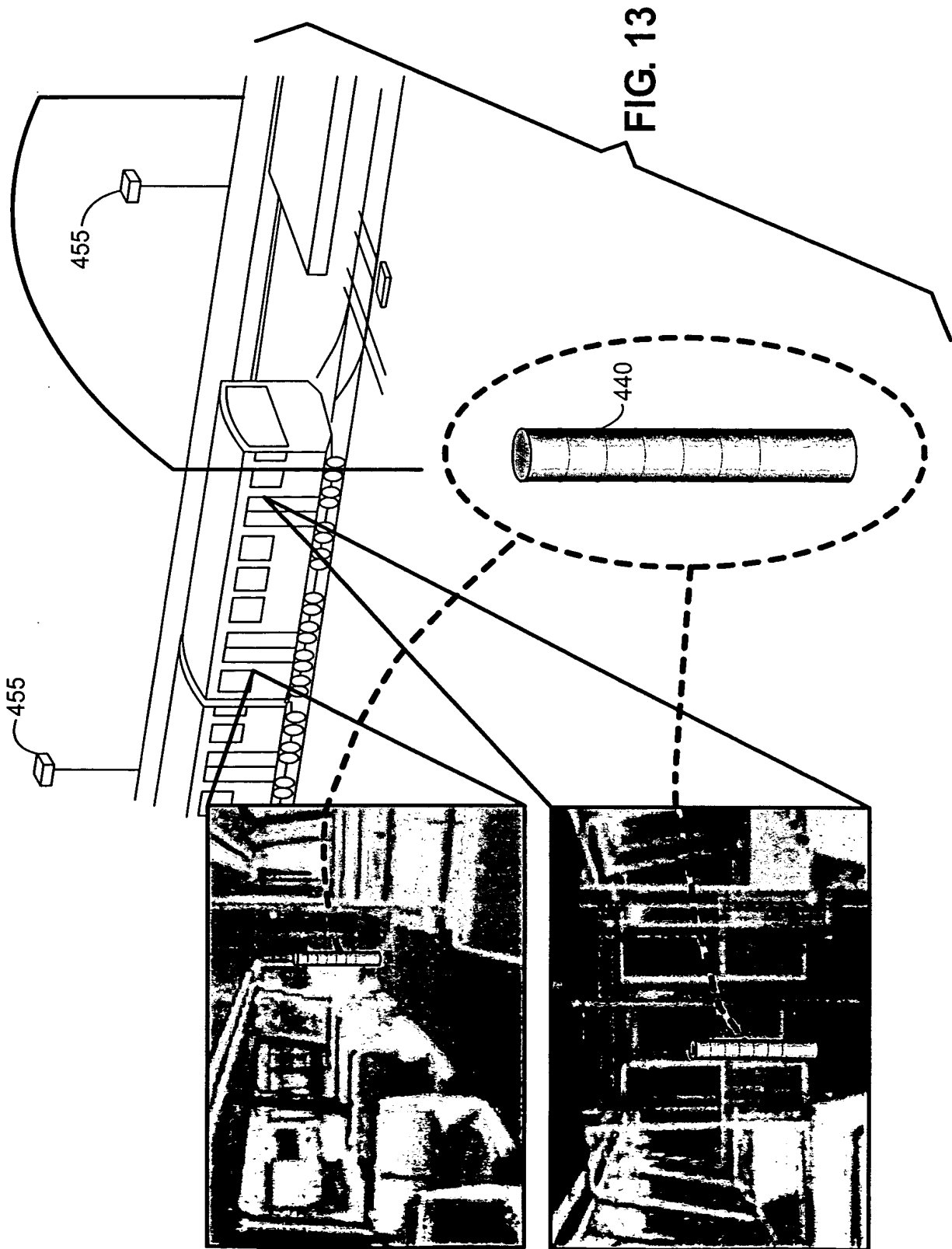


FIG. 12



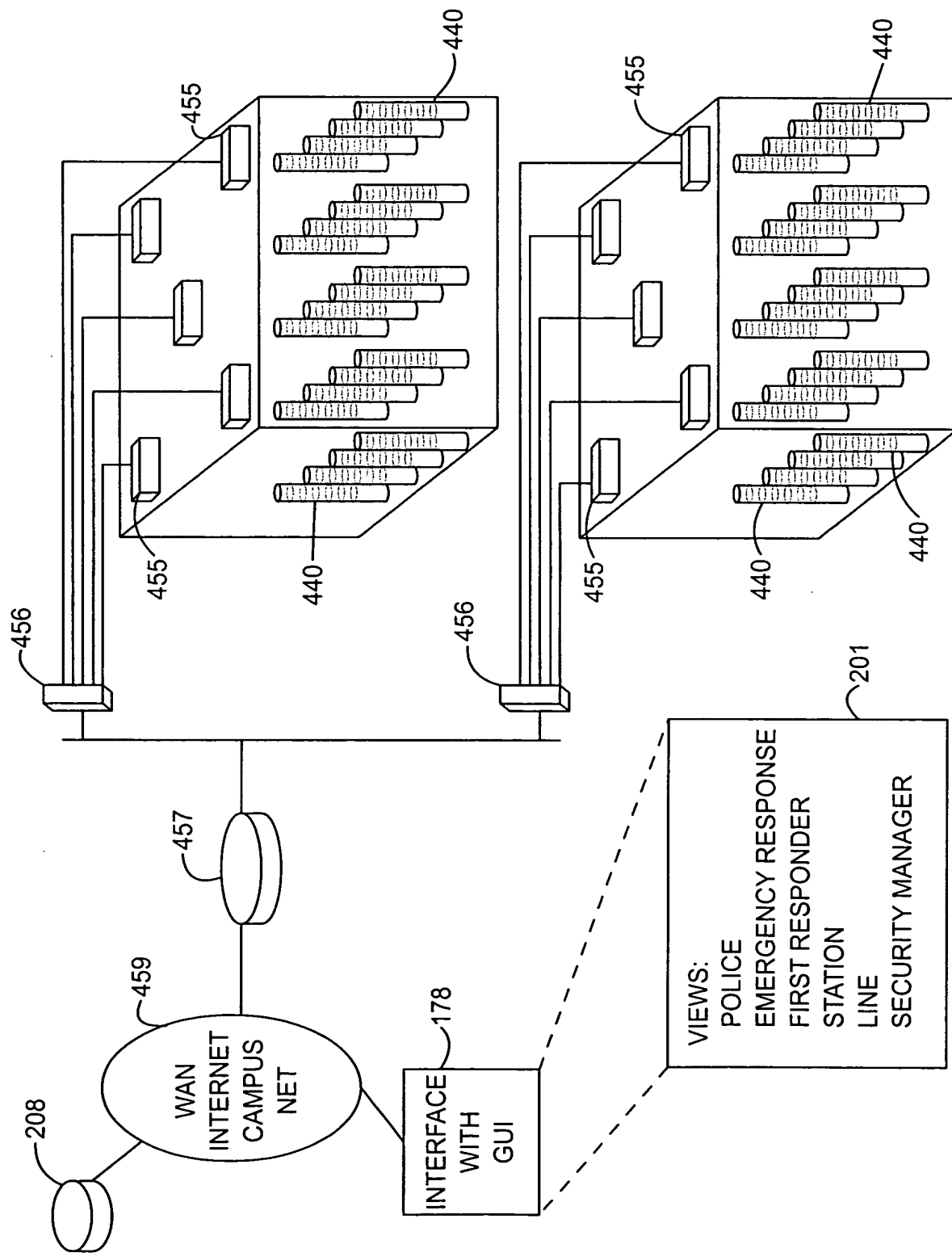
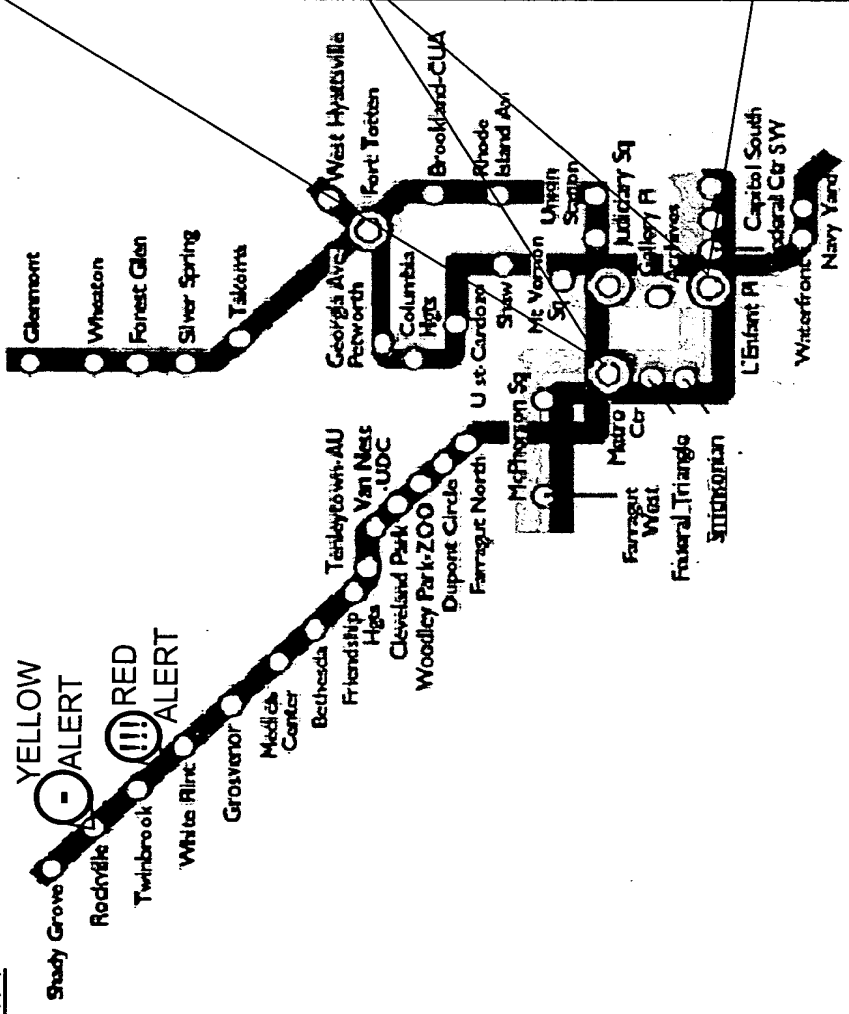


FIG. 15

471



Incident Report	Location	Status
Biochemical	Red Line- Station 3 - 4 13.45 mark	Countermeasures RED
Radiation	Red Line- Station 2 SG bound	Wait YELLOW
Potential Radiation Cleared	Red Line- Station 3 SG bound	Cleared GREEN
Potential Biohazard Cleared	Red Line- Station 12-13 29.13 mark	Cleared GREEN
Potential Chemical Cleared	Red Line- Station 19 GM bound	Cleared GREEN

201

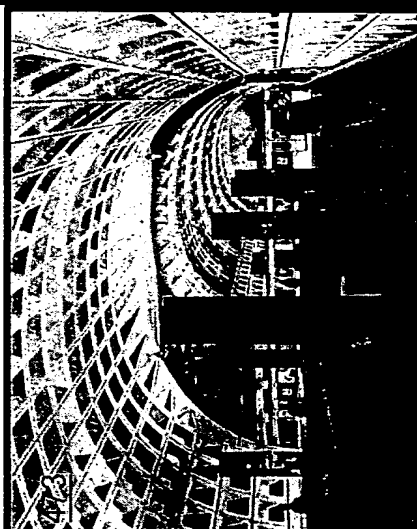
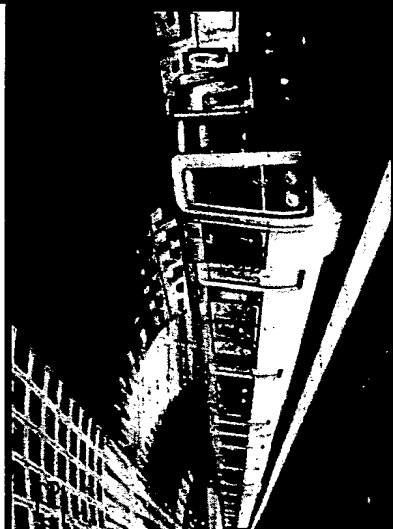
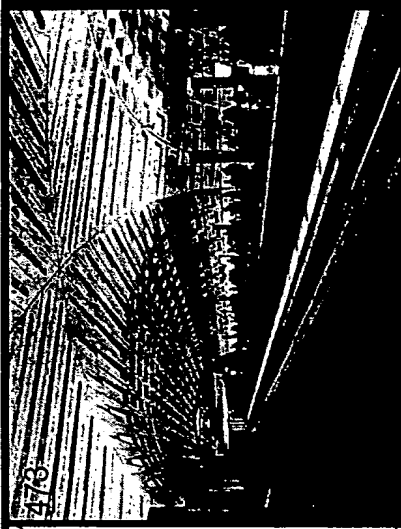


FIG. 16

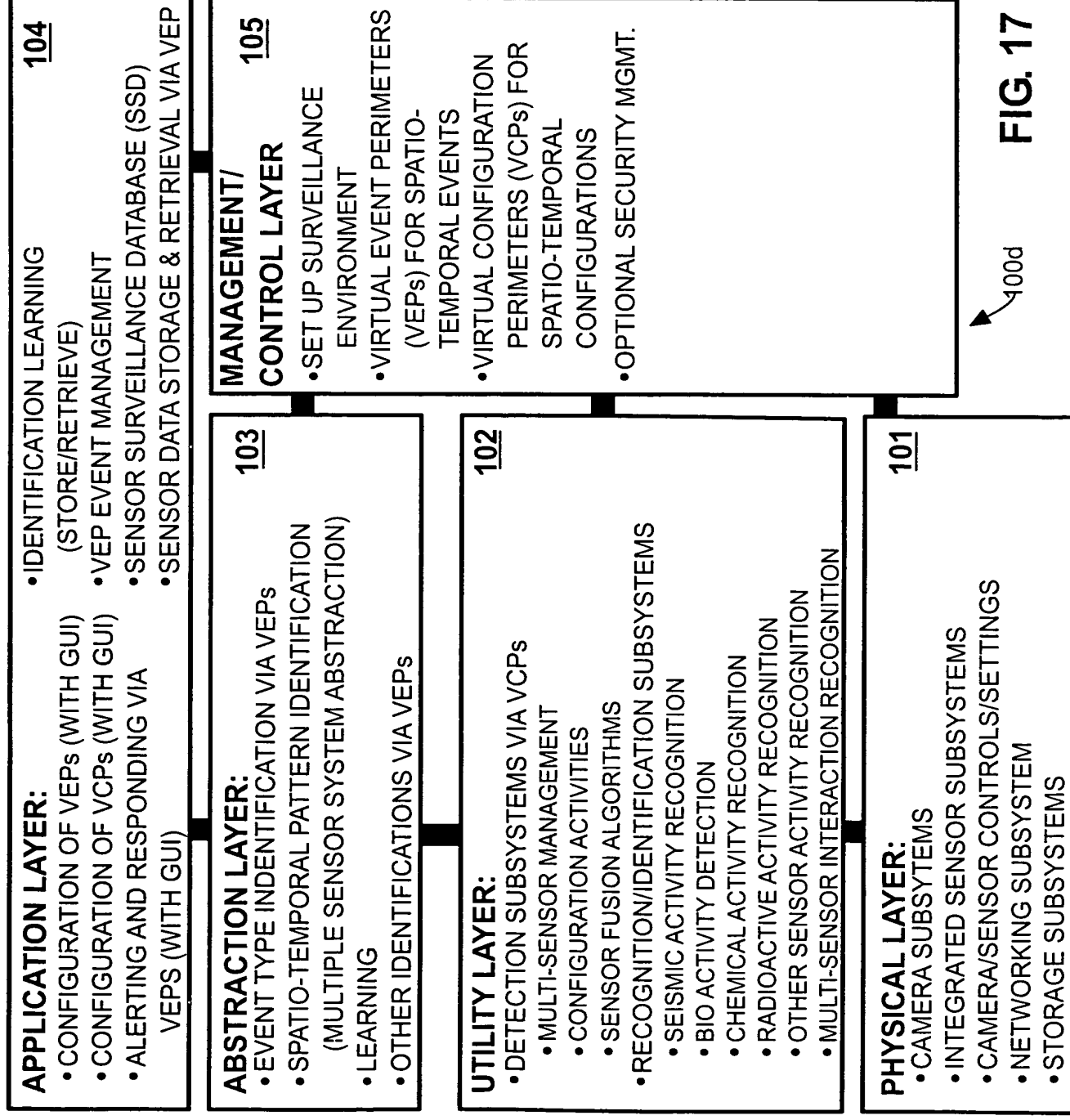


FIG. 17

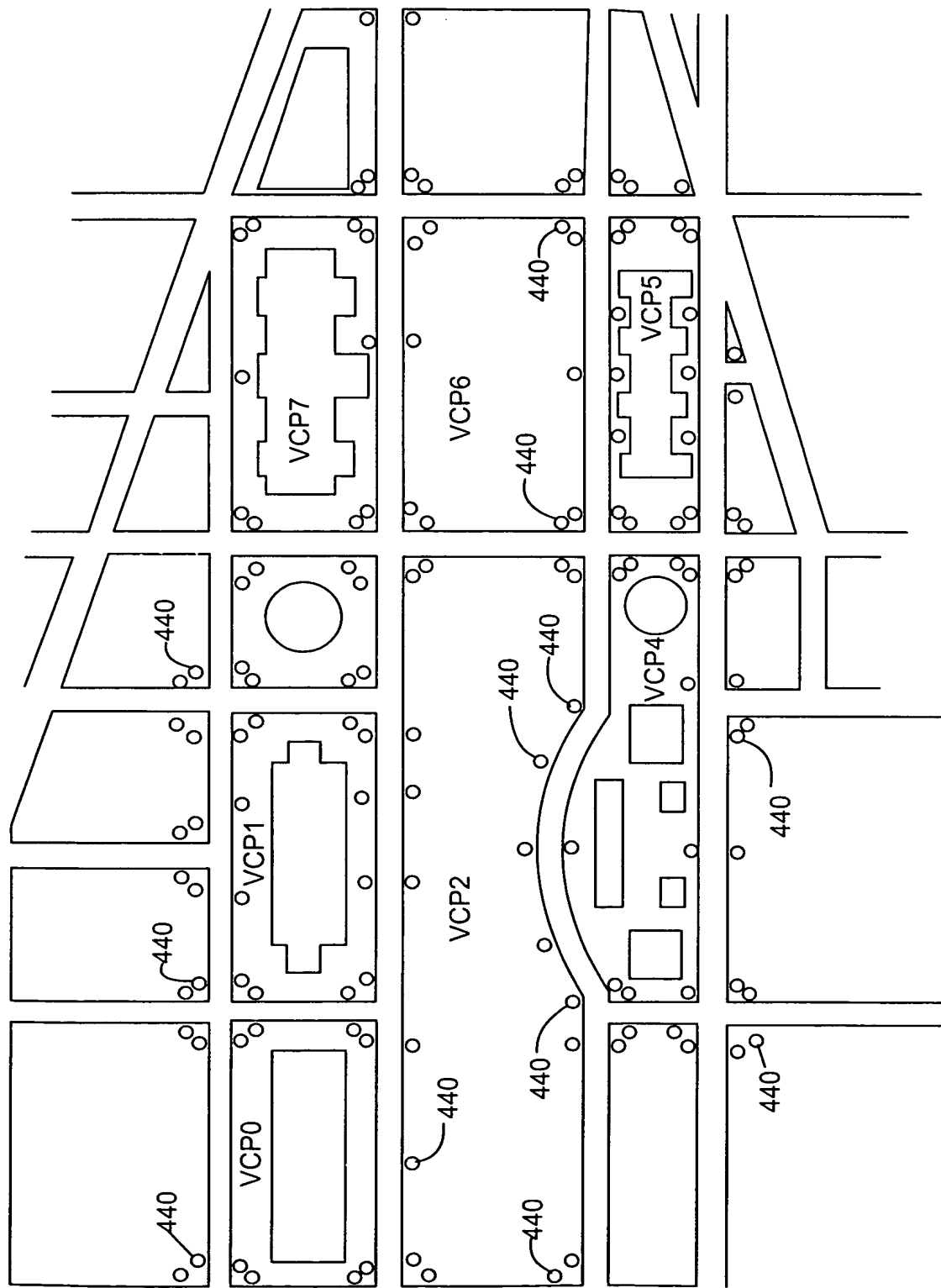


FIG. 18

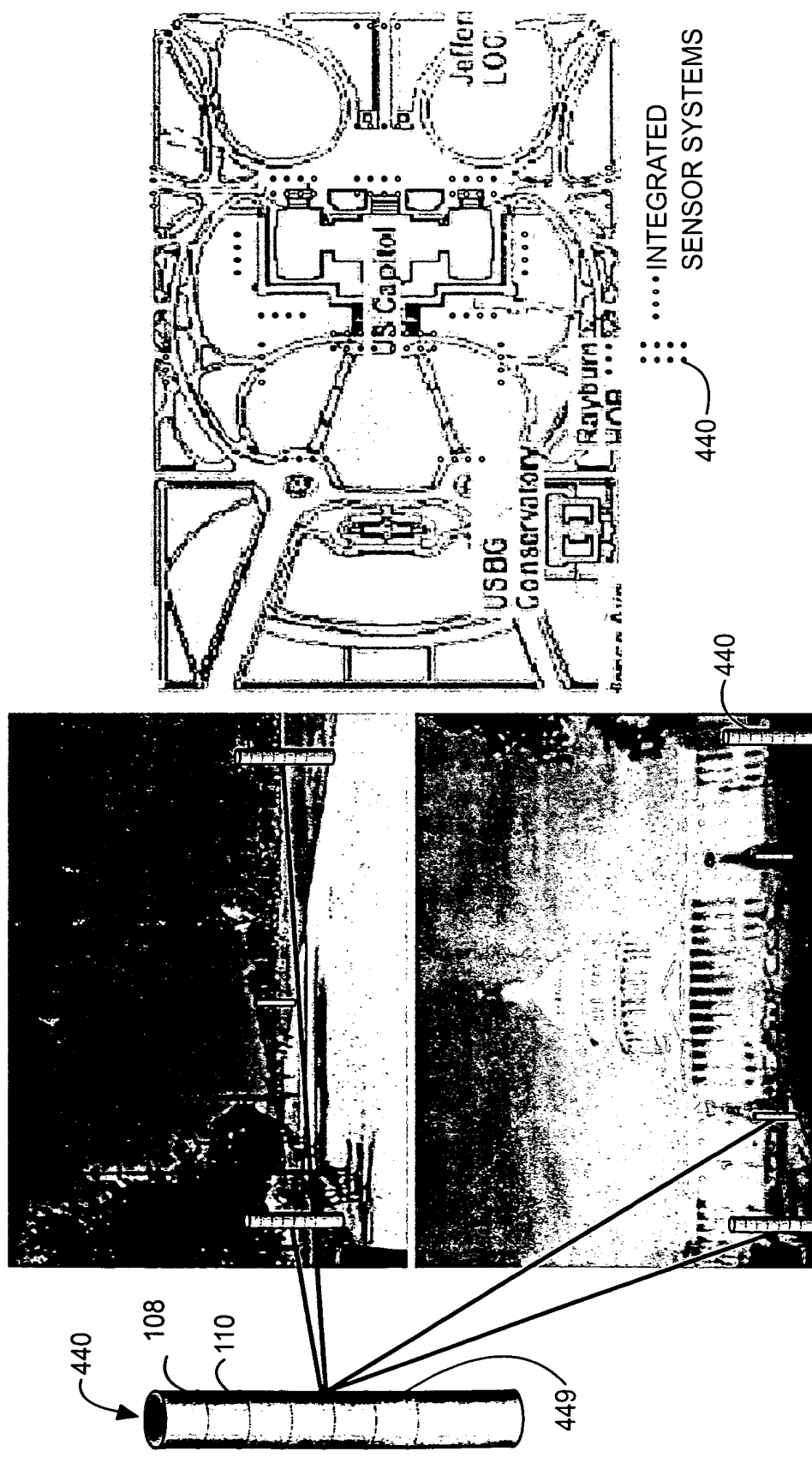


FIG. 19

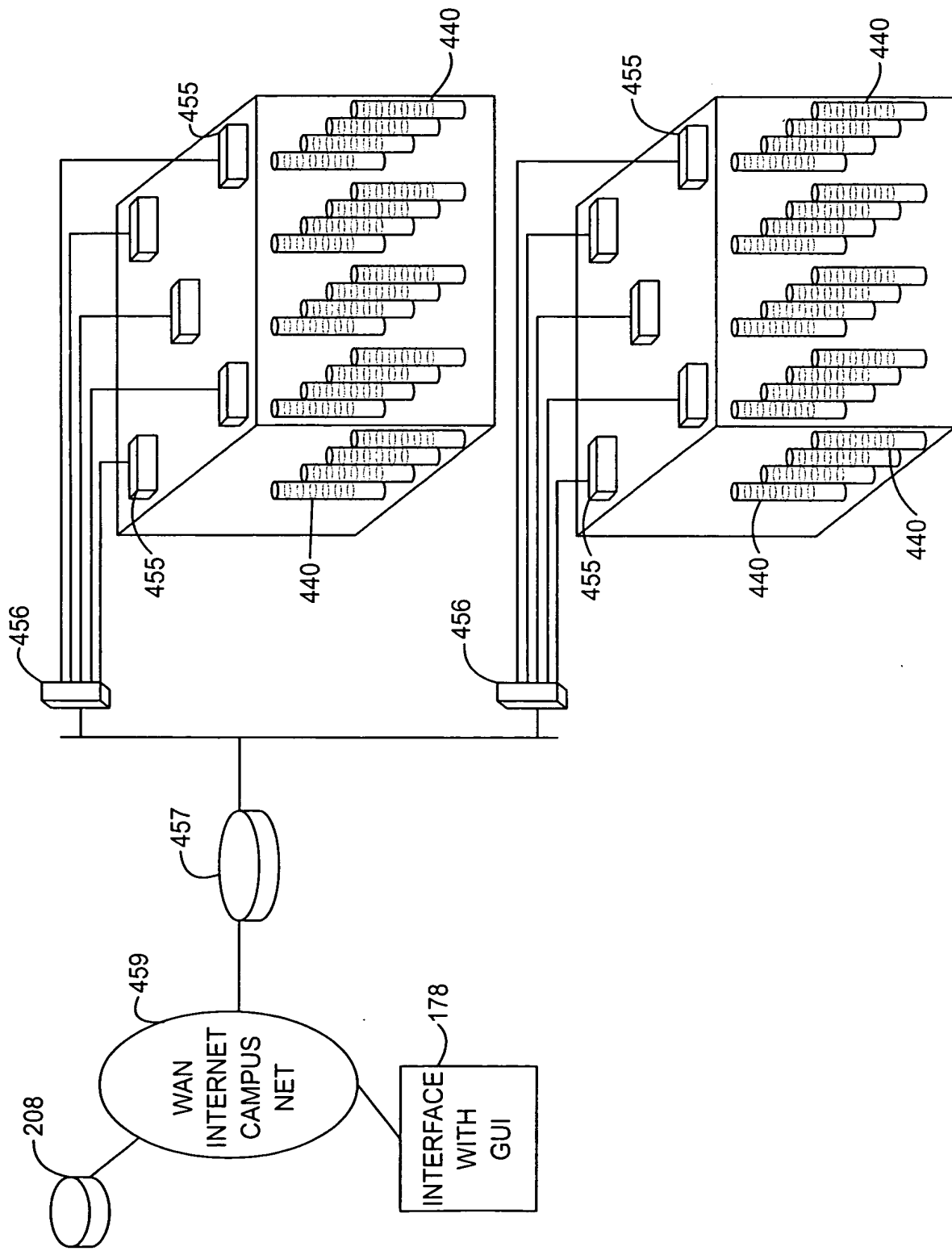


FIG. 20

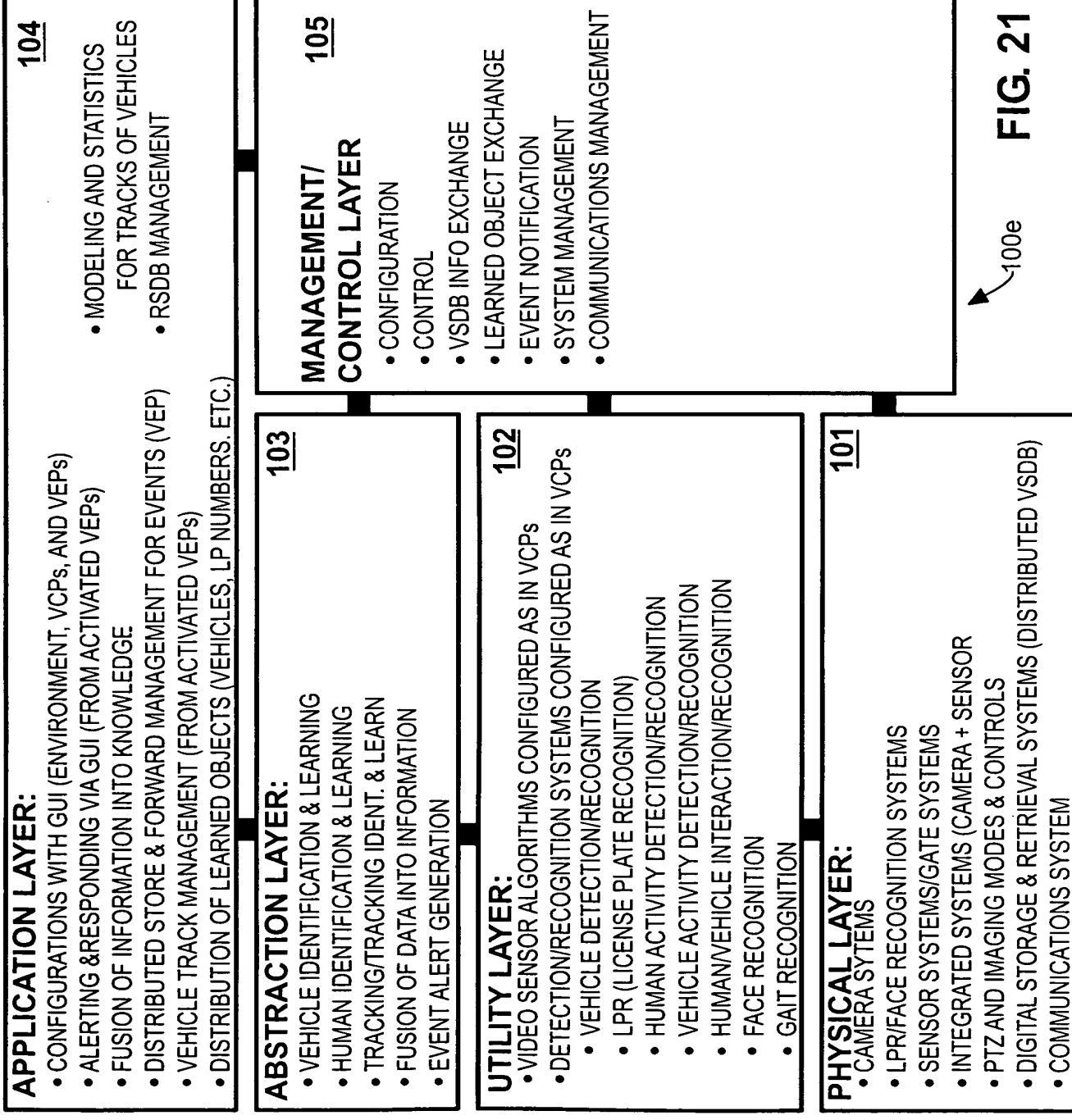


FIG. 21

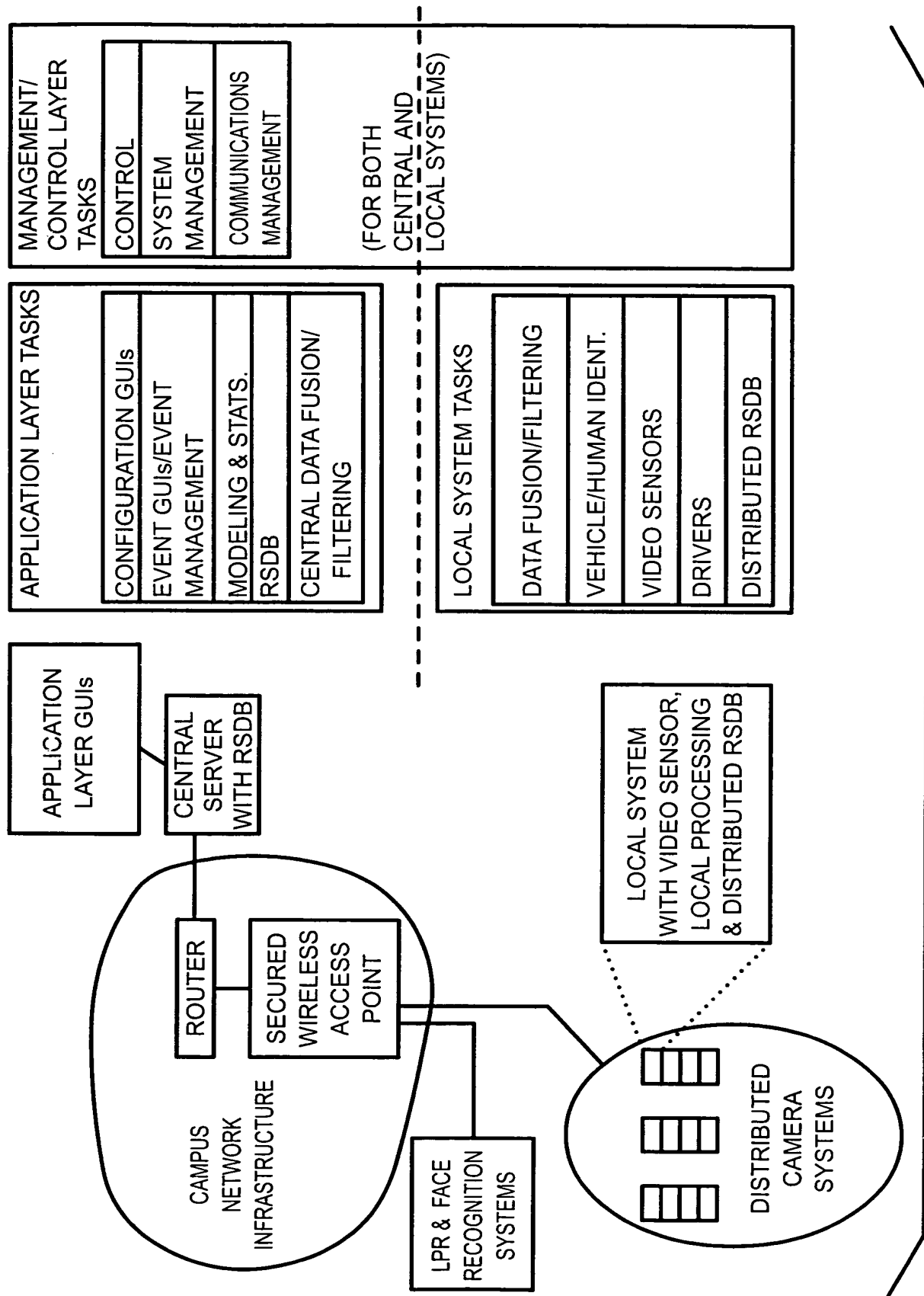


FIG. 22

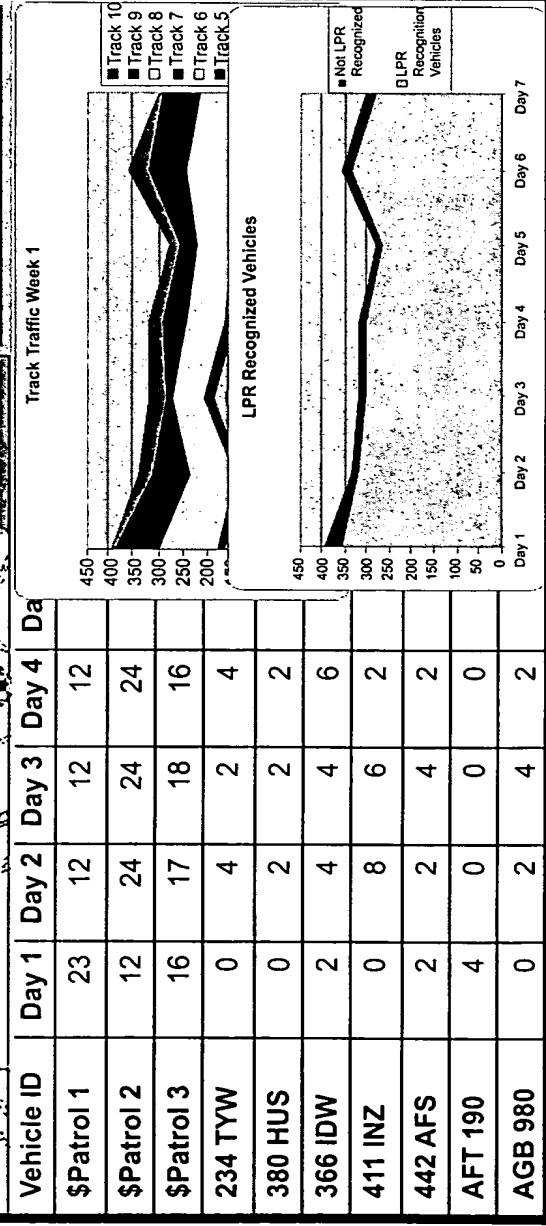
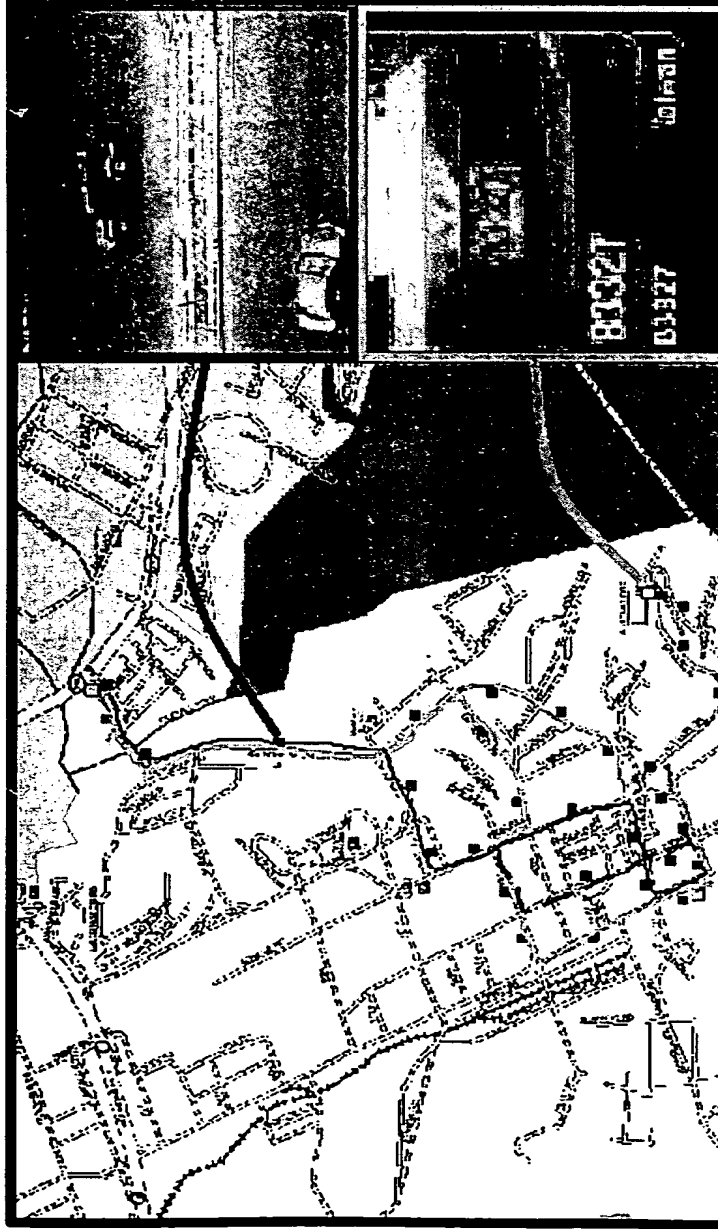


FIG. 23

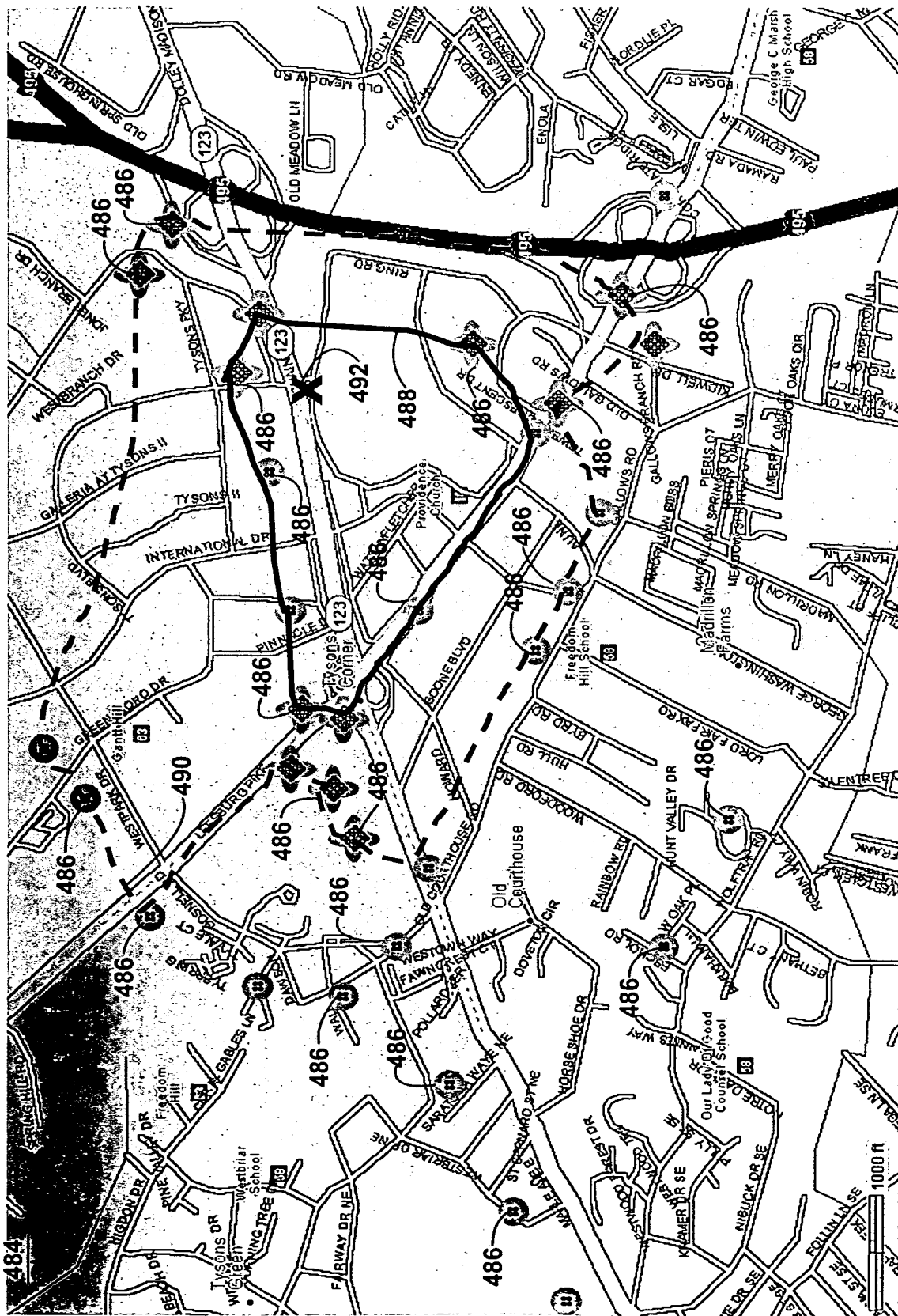


FIG. 24

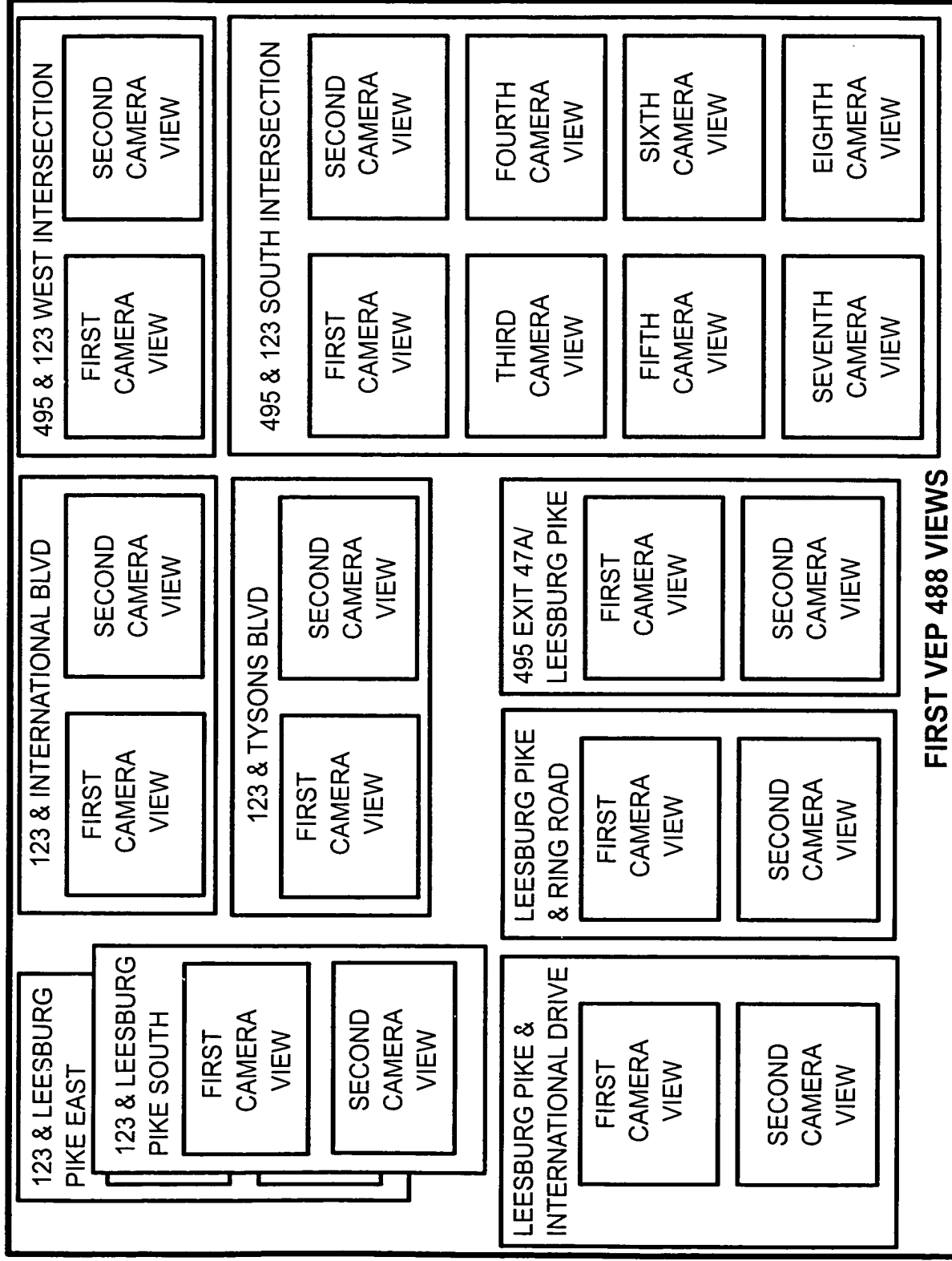


FIG. 25

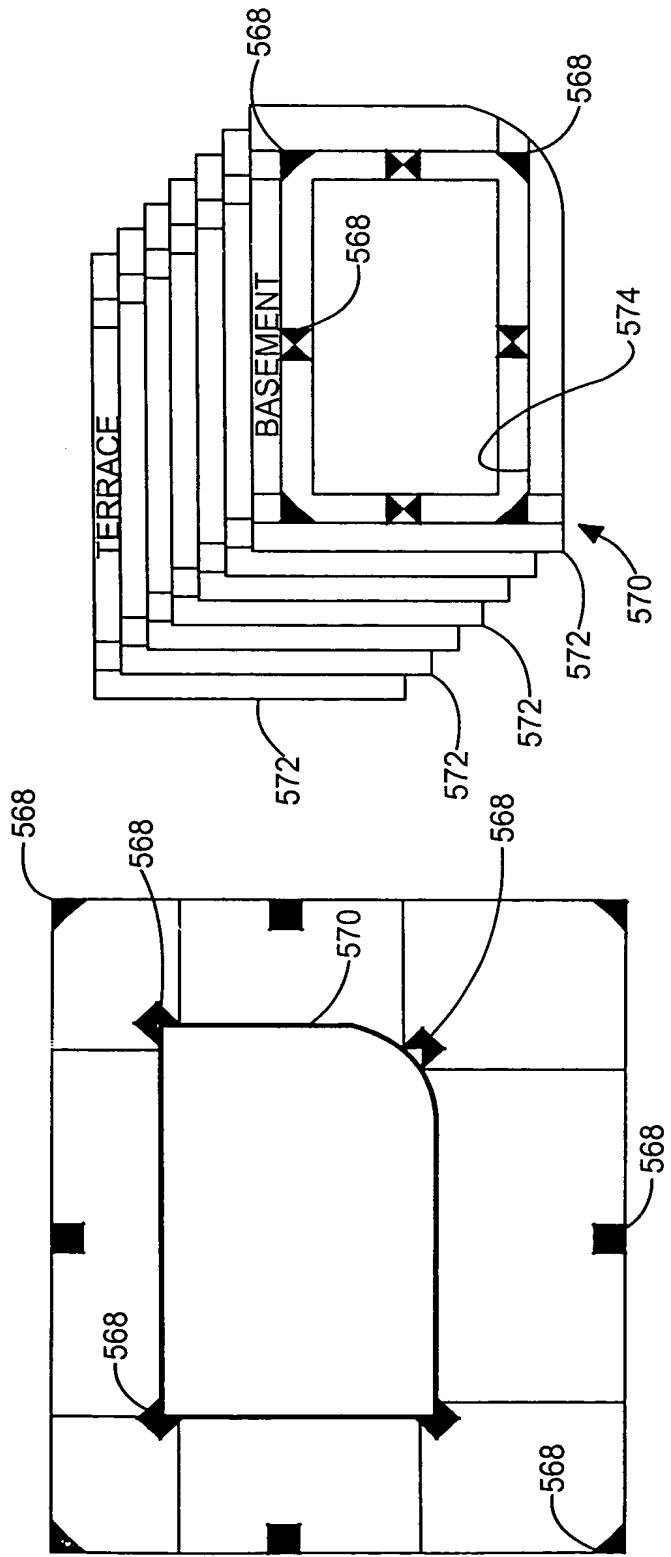


FIG. 26a

FIG. 26b

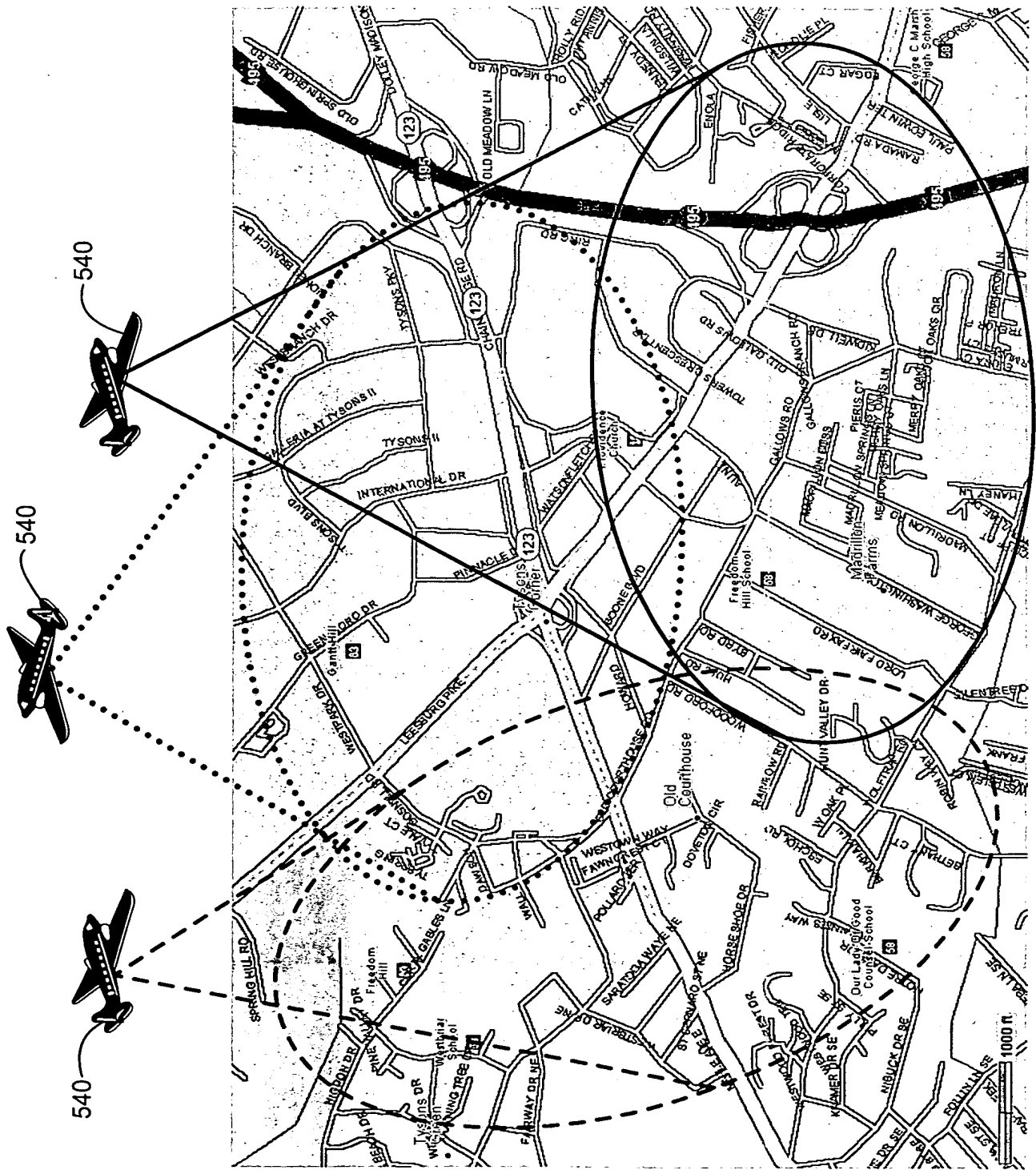


FIG. 27

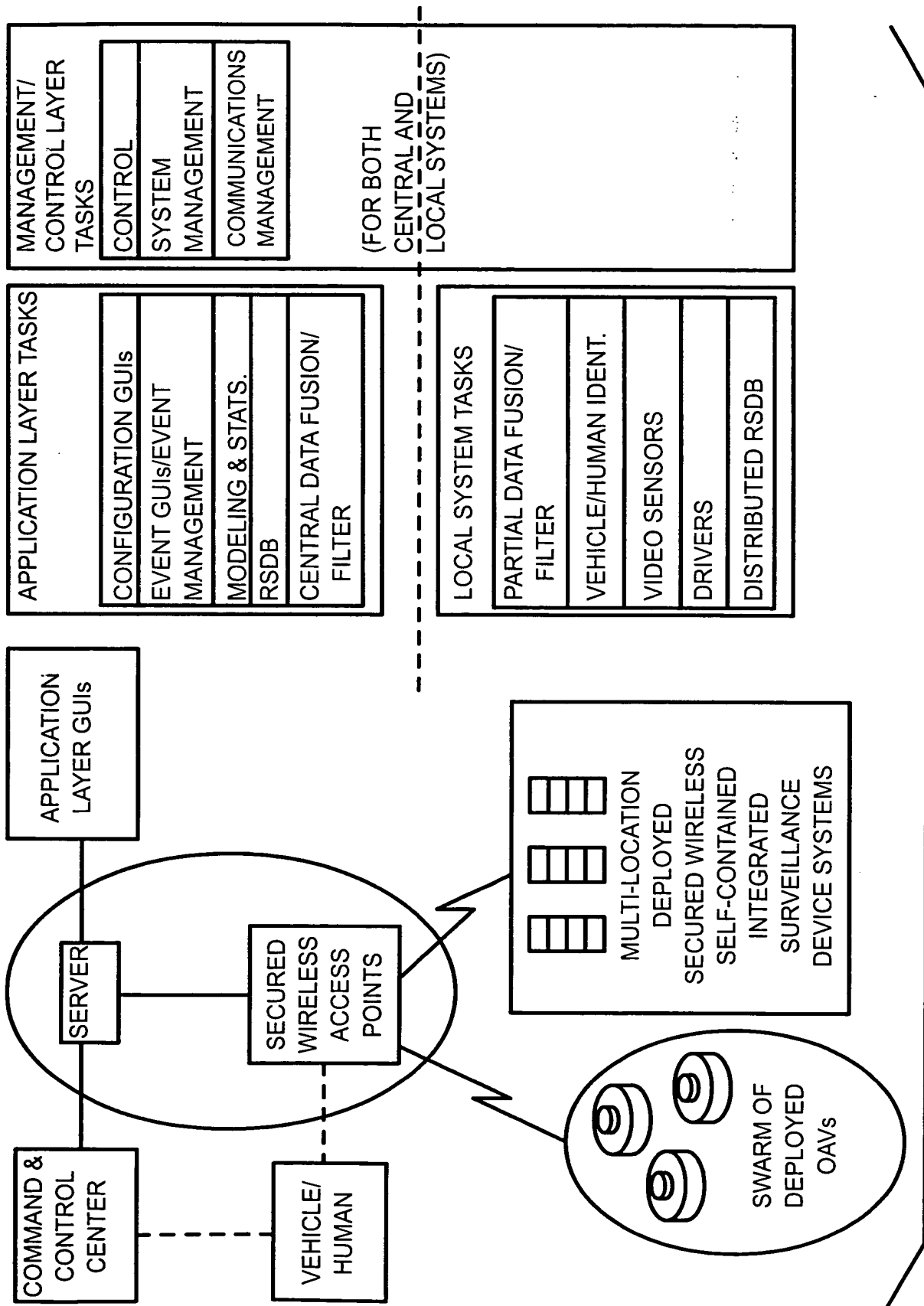


FIG. 28